Brickcom

PC Based Network Video Recorder

BRC-64
User Manual

Quality Service Group

Brickcom

Product name:	PC Based Network Video Recorder (BRC-64)
Release Date:	2011/3
Manual Revision:	V1.4
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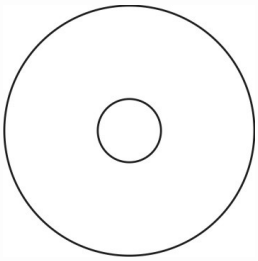
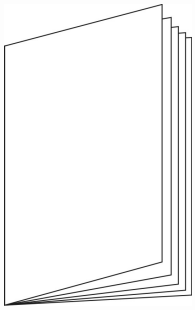
Table of Contents

Package Contents 1
Overview 2
System Requirements 3
Software Installation 4
EasyConfig 10
Start with PC-NVR 18
Authentication 19
Configure the PC-NVR 21
Live View 22
Setting 24
Add/Remove a Site 24
Camera 26
Sequence 29
System 30
Account 31
Video Wall 32
NVS Setting: 33
Playback 40
Event 46
Snapshot 48
E-Map 49
Lock 52

Package Contents

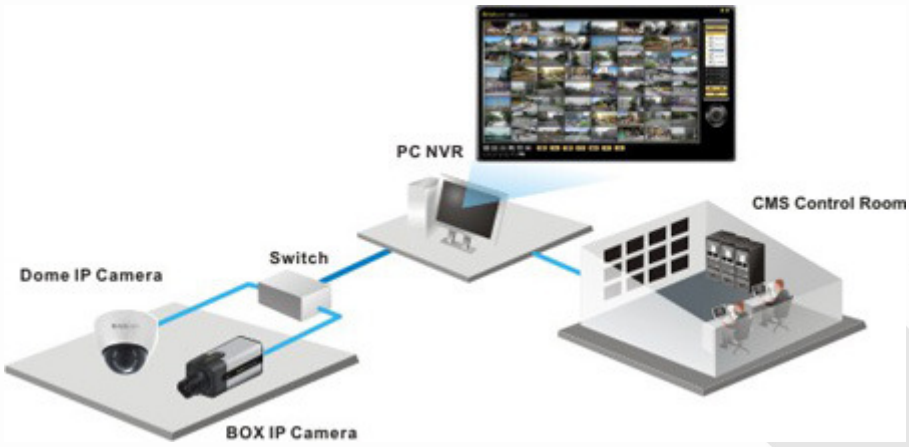
a. Brickcom Software Kit CD 	b. Easy Installation Guide 

Overview

The Brickcom BRC64 is an advanced PC-based NVR that allows users to manage up to 64 Brickcom IP cameras for live viewing and video recording. With the support of Mega-pixel resolution and H.264 compression, it uses less bandwidth while offering optimal image viewing and recording quality.

Designed for flexibility and user-friendliness, the BRC64 has many features which enable easy setup and management of the entire IP surveillance system. The E-MAP gives users a full outline of the monitored areas and the “Smart Camera Search” feature makes it possible to gain instant access to any Brickcom IP camera on the specific site. “Smart Motion Detection” and extensive event configuration work together to make an effective IP system. Support for viewing and recording at different frame rates is available for efficient use of disk space. Flexible recording options include manual, event-triggered, scheduled and continuous.

With the help of the Brickcom BRC64 and its IP cameras, users can quickly build a secure IP surveillance system.



System Requirements

Operating System:

Microsoft Windows XP Home Edition SP2

Microsoft Windows XP Professional SP2

Computer:

IBM PC/AT Compatible

CPU:

Pentium 3GHz or faster

Memory:

1024 MB or more

Monitor:

1024 x 768 pixels or more, 24-bit True color or better

Network Interface:

10/100Mbps Network interface card must be installed

Web Browser:

Microsoft Internet Explorer 6.0 SP2 or higher

Adobe Reader:

Adobe Reader 8.0 or higher

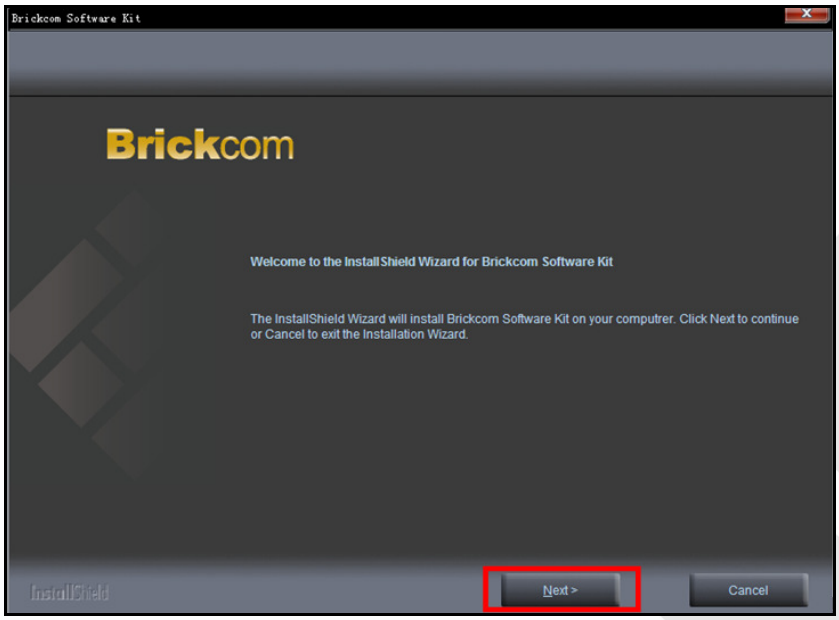
Audio:

- The audio function will not work if a sound card is not installed in the PC. Audio may be interrupted depending on network traffic.

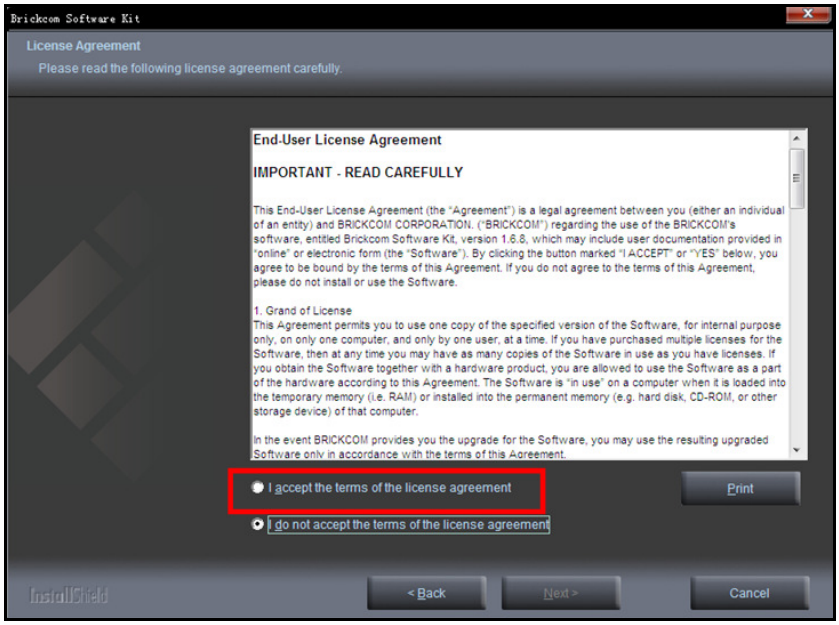
Software Installation

1. Insert the Installation CD into the CD-ROM driver. Run Auto-Run Tool directly from the CD-ROM to start the installation. While installing the Brickcom software kit for the first time, select a desired language for the interface. The available languages are listed in the scroll box. Click <**Install**> and follow the steps to install the EasyConfig wizard on the desired computer.

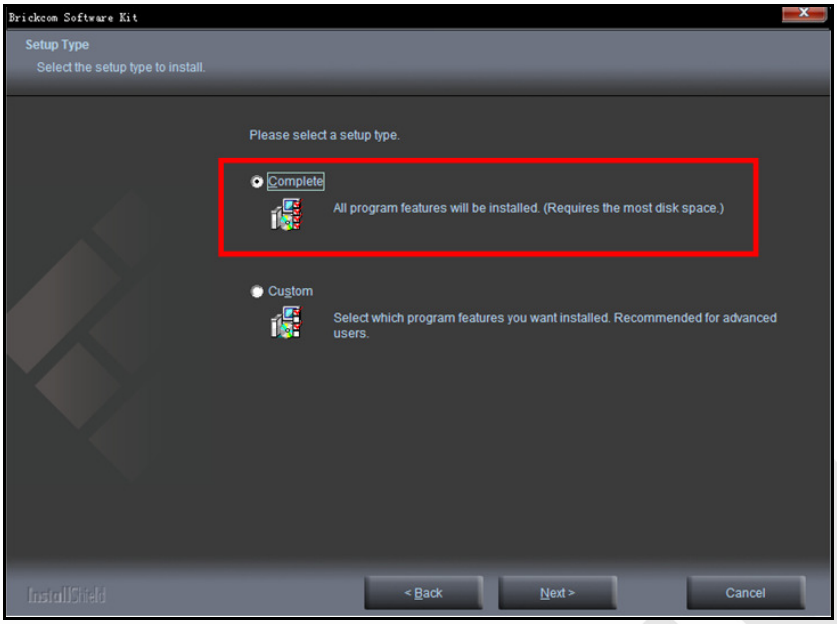
2. In the Install Shield Wizard dialog box, click <Next> to continue.


Brickcom Software Kit
Brickcom
Welcome to the InstallShield Wizard for Brickcom Software Kit
The InstallShield Wizard will install Brickcom Software Kit on your computrer. Click Next to continue or Cancel to exit the Installation Wizard.
InstallShield
Next >
Cancel

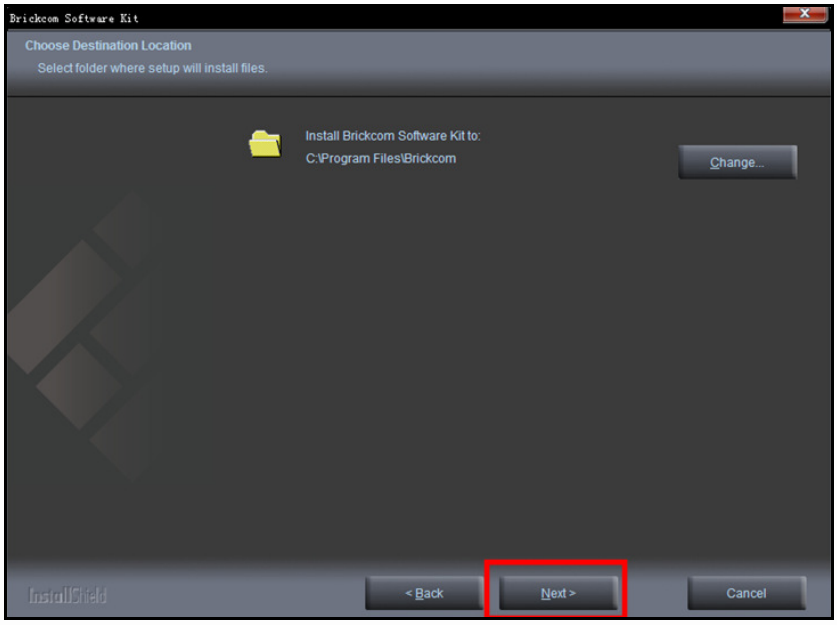
3. Read the End-User License Agreement and check the option “I accept the terms of the license agreement”. Click <Next> to continue.


Brickcom Software Kit
License Agreement
Please read the following license agreement carefully.
End-User License Agreement
IMPORTANT - READ CAREFULLY
This End-User License Agreement (the "Agreement") is a legal agreement between you (either an individual of an entity) and BRICKCOM CORPORATION. ("BRICKCOM") regarding the use of the BRICKCOM's software, entitled Brickcom Software Kit, version 1.6.8, which may include user documentation provided in "online" or electronic form (the "Software"). By clicking the button marked "I ACCEPT" or "YES" below, you agree to be bound by the terms of this Agreement. If you do not agree to the terms of this Agreement, please do not install or use the Software.
1. Grand of License
This Agreement permits you to use one copy of the specified version of the Software, for internal purpose only, on only one computer, and only by one user, at a time. If you have purchased multiple licenses for the Software, then at any time you may have as many copies of the Software in use as you have licenses. If you obtain the Software together with a hardware product, you are allowed to use the Software as a part of the hardware according to this Agreement. The Software is "in use" on a computer when it is loaded into the temporary memory (i.e. RAM) or installed into the permanent memory (e.g. hard disk, CD-ROM, or other storage device) of that computer.
In the event BRICKCOM provides you the upgrade for the Software, you may use the resulting upgraded Software only in accordance with the terms of this Agreement.
I accept the terms of the license agreement
I do not accept the terms of the license agreement
Print
InstallShield
< Back
Next >
Cancel

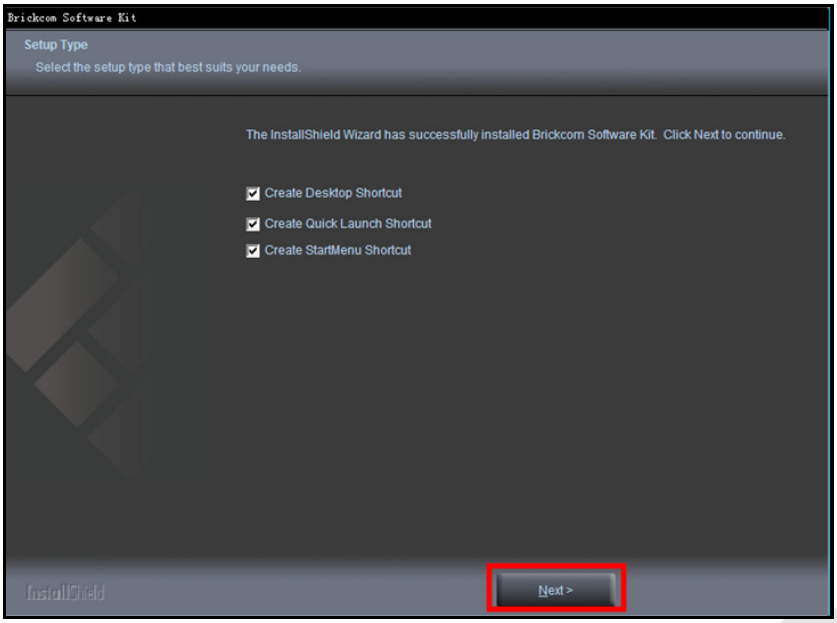
4. Select either “Complete” setup or “Custom” setup to install the system.
    a. **If COMPLETE SETUP is selected:**
        i. **All program features** will be installed into the default directory. Check the option “**Complete**” and then click <Next>.


Brickcom Software Kit
Setup Type
Select the setup type to install.
Please select a setup type.
Complete
All program features will be installed. (Requires the most disk space.)
Custom
Select which program features you want installed. Recommended for advanced users.
InstallShield
< Back
Next >
Cancel

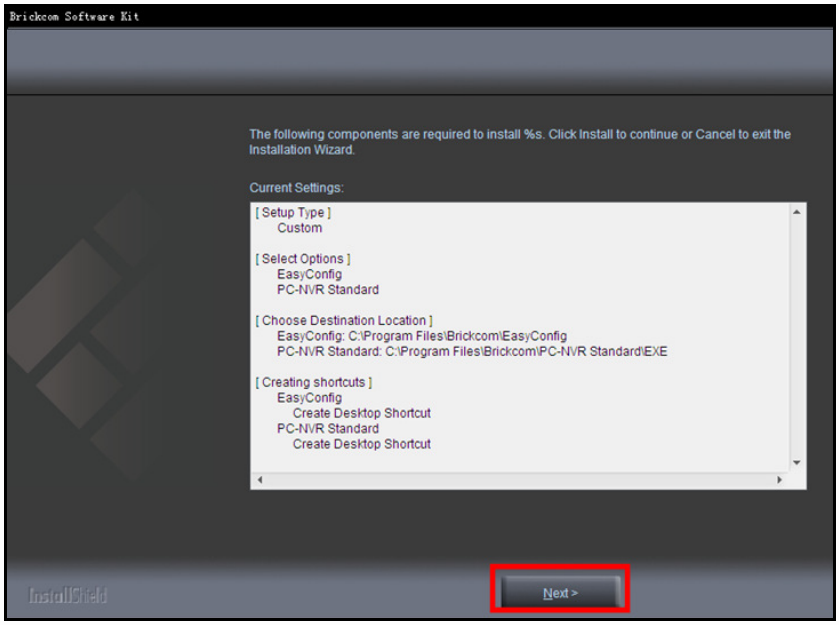
        ii. Click <Change> to change the appointed folder where installation and program files will be stored. Click <Next> to continue.



iii. Select to create shortcuts. Click <**Next**> to continue.


Brickcom Software Kit
Setup Type
Select the setup type that best suits your needs.
The InstallShield Wizard has successfully installed Brickcom Software Kit. Click Next to continue.
Create Desktop Shortcut
Create Quick Launch Shortcut
Create StartMenu Shortcut
InstallShield
Next >

iv. The installation information will be displayed. Click <Next> to continue.

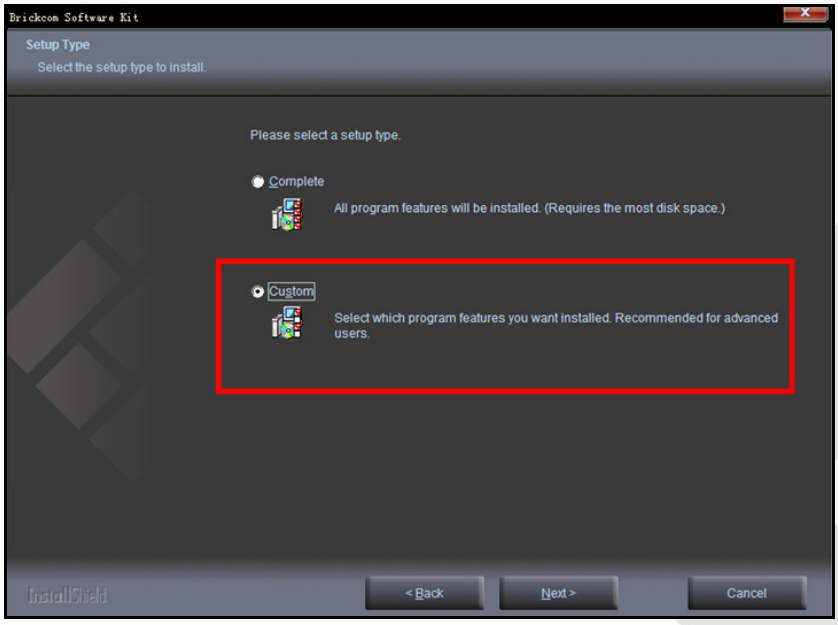


v. To launch EasyConfig or PC-NVR Standard, select the application and click <Finish>. When launching the PC-NVR program, please see page 18.

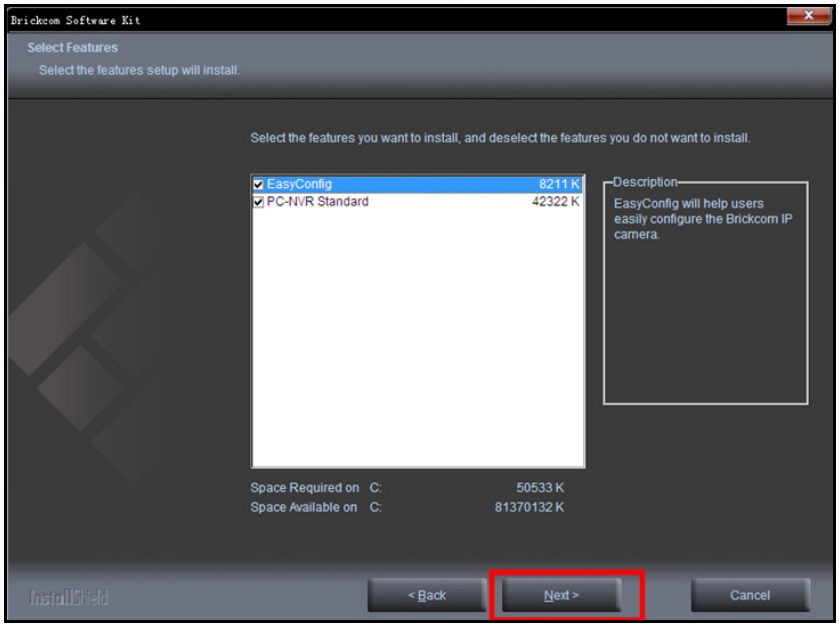
b. **If CUSTOM SETUP is selected:**

i. This option is recommended for advanced users. It can be used to install the system to a preferred directory or to select specific program feature(s).

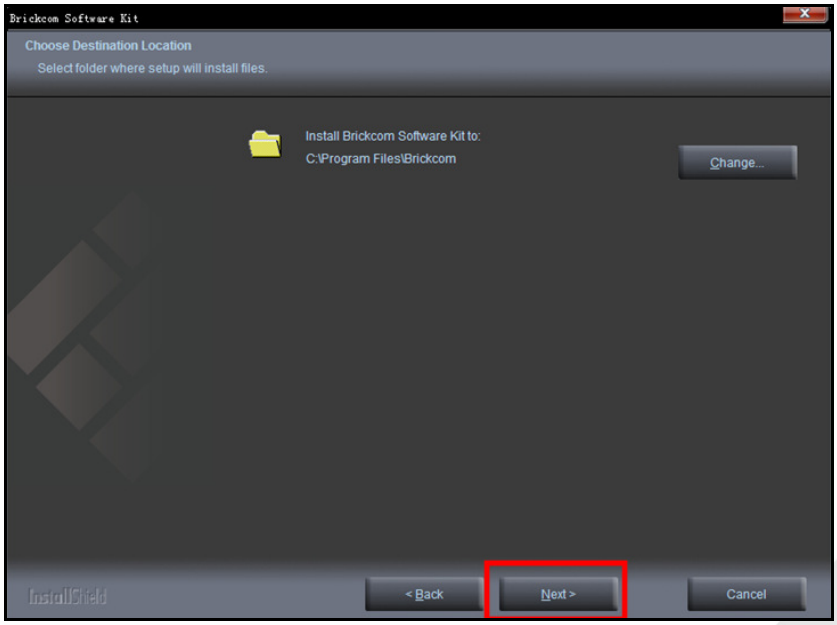
ii. Check the option “Custom”, and then click <Next>.


Brickcom Software Kit
Setup Type
Select the setup type to install.
Please select a setup type.
Complete
All program features will be installed. (Requires the most disk space.)
Custom
Select which program features you want installed. Recommended for advanced users.
InstallShield
< Back
Next >
Cancel

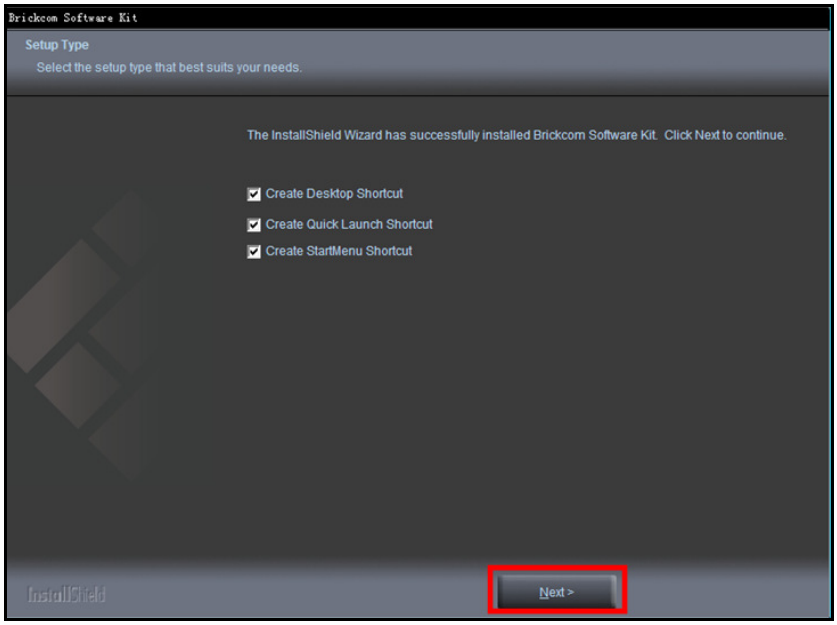
iii. Select the features to install. Click <Next> to continue.


Brickcom Software Kit
Select Features
Select the features setup will install.
Select the features you want to install, and deselect the features you do not want to install.
EasyConfig 8211 K
PC-NVR Standard 42322 K
Description
EasyConfig will help users easily configure the Brickcom IP camera.
Space Required on C: 50533 K
Space Available on C: 81370132 K
InstallShield
< Back
Next >
Cancel

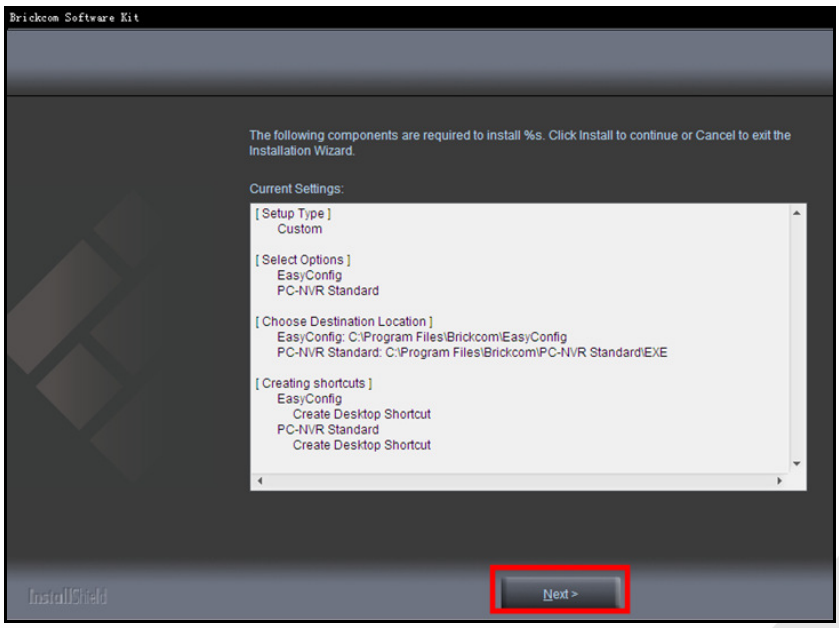
iv. Click <**Change**> to change the appointed folder where installation and program files will be stored. Click <**Next**> to continue.



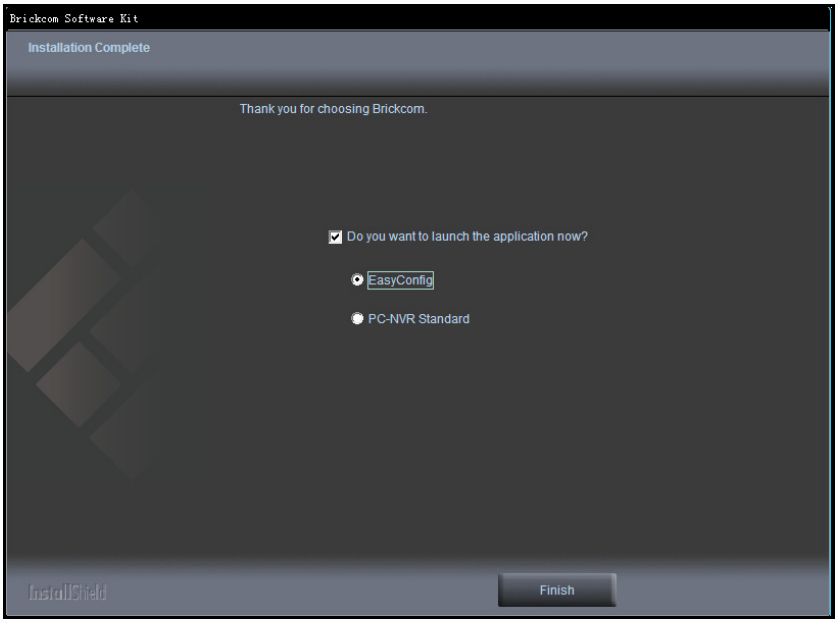
v. Select programs to create shortcuts. Click <**Next**> to continue.


Brickcom Software Kit
Setup Type
Select the setup type that best suits your needs.
The InstallShield Wizard has successfully installed Brickcom Software Kit. Click Next to continue.
Create Desktop Shortcut
Create Quick Launch Shortcut
Create StartMenu Shortcut
InstallShield
Next >

vi. The installation information will be displayed. Click <**Next**> to continue.

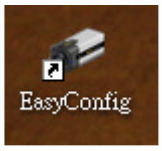


5. To launch EasyConfig or PC-NVR Standard, select the application and click <Finish>. When launching the PC-NVR program, please see page 18.



EasyConfig

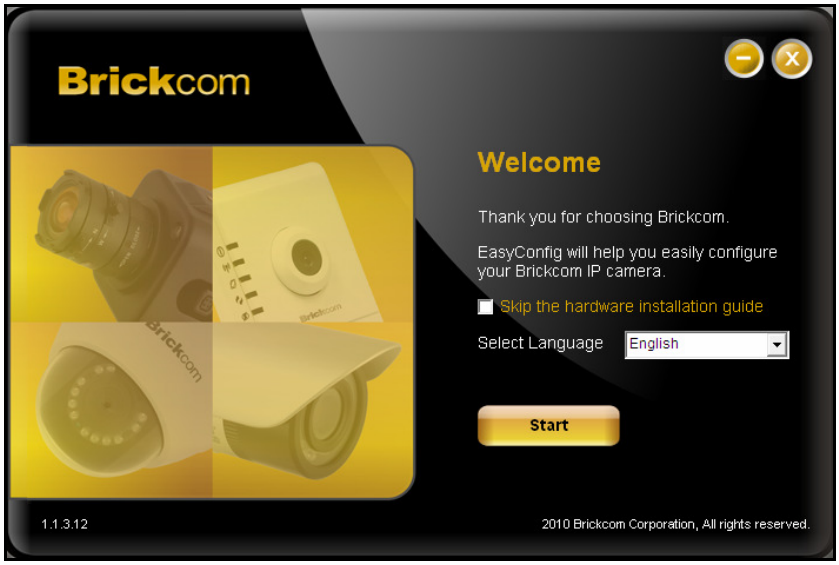
To launch EasyConfig, select EasyConfig from the start menu. If Complete Setup type was used in the software installation, an EasyConfig icon was installed on the desktop. Double click to open the icon.

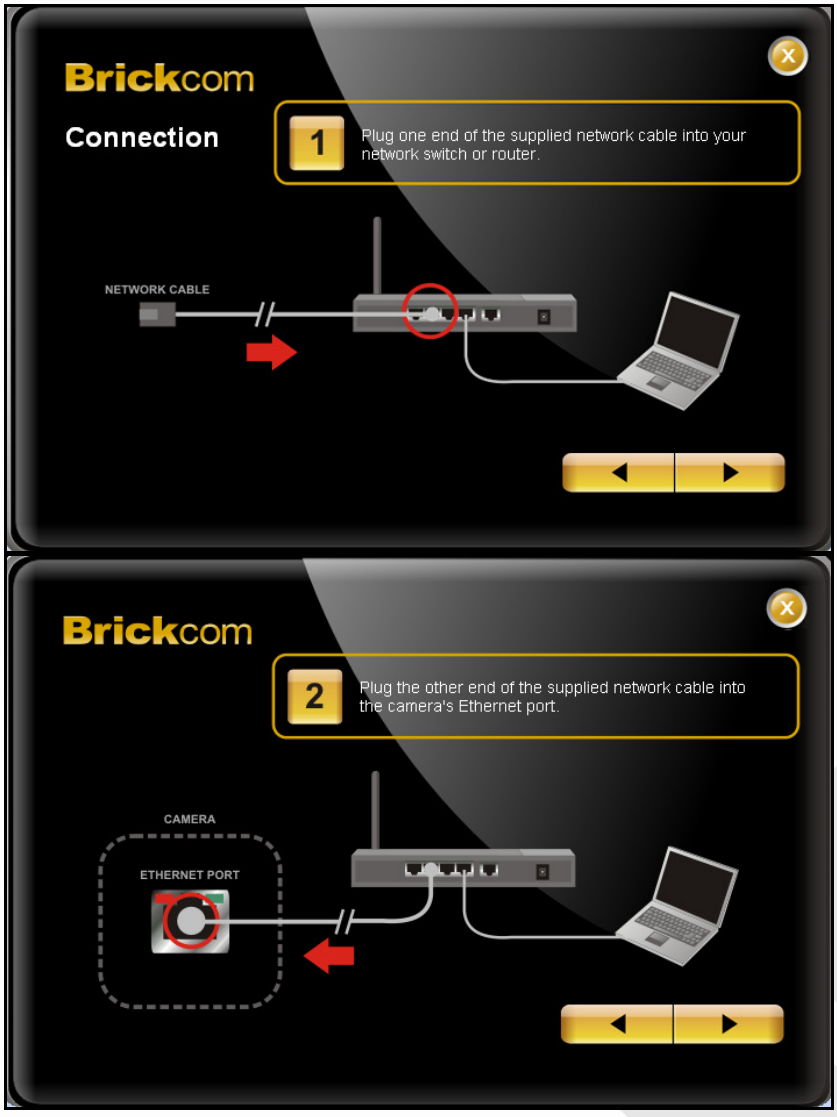


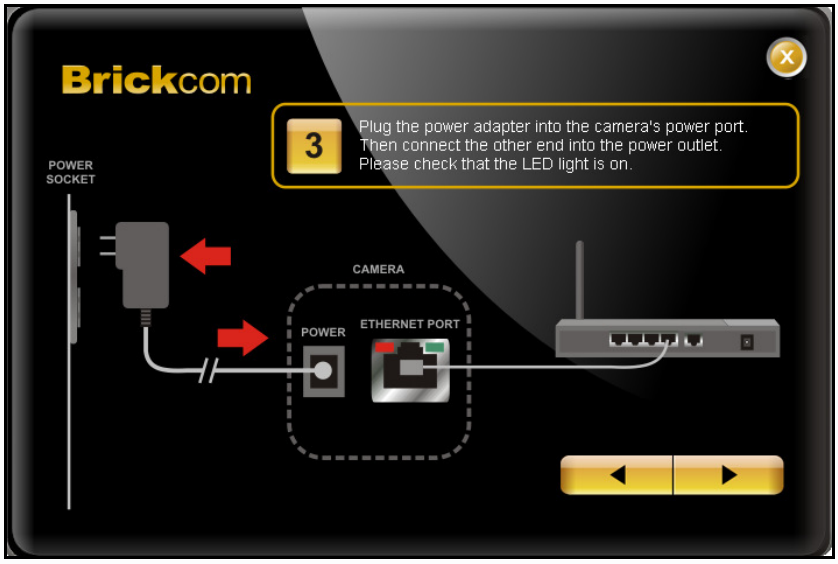
If Custom Setup type was used in the software installation and an EasyConfig icon was not installed on the desktop, the program will be installed under C:\Program Files\Brickcom\EasyConfig unless the program was saved to a preferred directory.

1. Click <**Start**> to continue. The program will automatically search for the camera in the intranet.

NOTE - Check “Skip the hardware installation guide” to skip checking the hardware connection. To check the hardware installation settings, do not check the option box.


Brickcom
Welcome
Thank you for choosing Brickcom.
EasyConfig will help you easily configure your Brickcom IP camera.
Skip the hardware installation guide
Select Language
English
Start
1.1.3.12
2010 Brickcom Corporation, All rights reserved.

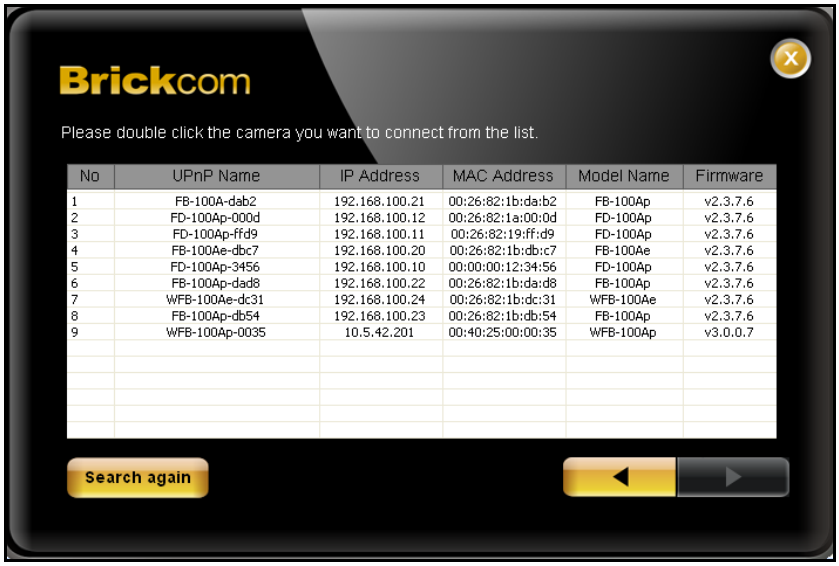

Brickcom
Connection
1
Plug one end of the supplied network cable into your network switch or router.
NETWORK CABLE
Brickcom
2
Plug the other end of the supplied network cable into the camera's Ethernet port.
CAMERA
ETHERNET PORT



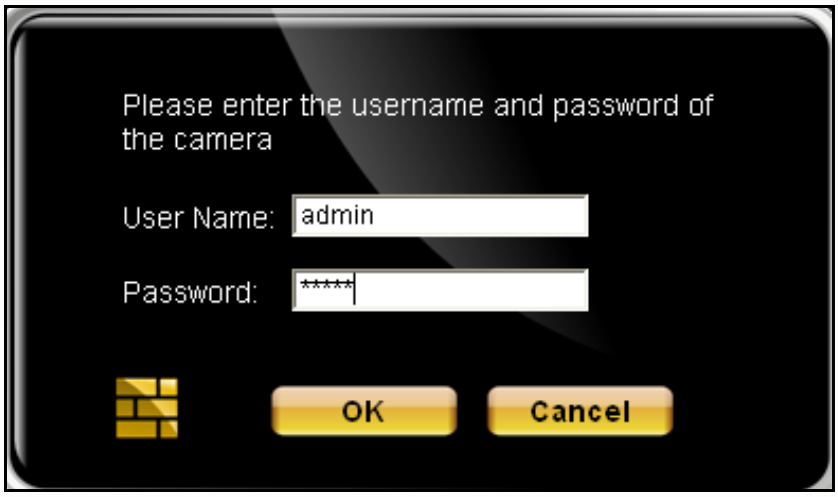
2. Select either "**Simple Mode**" or "**Professional Mode**" to obtain the camera's IP settings. If "**Simple Mode**" is selected, EasyConfig will set up the connection automatically. If "**Professional Mode**" is selected, the user will need to configure the IP settings manually.

Brickcom
If simple mode is selected, the easy configuration program will set up the connection automatically.
If professional mode is selected, the user will need to configure the IP manually. The DHCP setting is recommended. If user wants to set the IP address manually, please refer to the product user manual.
Simple Mode
Professional Mode

3. There may be many cameras in the local network. Differentiate the cameras using their UPnP name. Double click on the camera from the survey list to connect.



4. Enter the username and password of the camera. For first time use, the default username and password are "**admin**/**admin**."

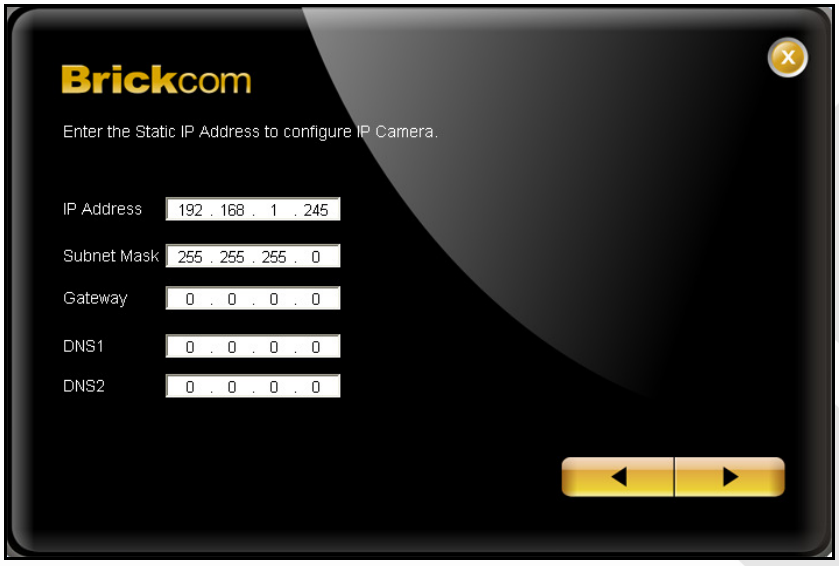


5. For configuring the IP address settings, select either <**Settings remain the same**>, <**Automatically obtain an IP Address (DHCP)**> or <**Set IP Address configuration manually**>. The DHCP setting is recommended.

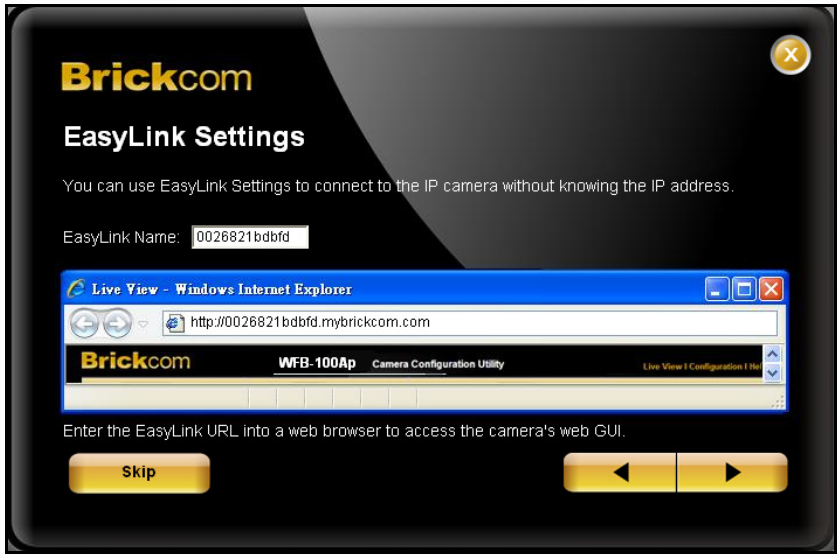
Brickcom
Select the IP Address settings.
Settings remain the same
Automatically obtain an IP Address (DHCP)
Set IP Address configuration manually

a. If <**Set IP Address configuration manually**> is selected, the following pages will be displayed.

Brickcom
Select the IP Address settings.
Settings remains the same
Automatically obtain an IP Address (DHCP)
Set IP Address configuration manually


Brickcom
Enter the Static IP Address to configure IP Camera.
IP Address 192 . 168 . 1 . 245
Subnet Mask 255 . 255 . 255 . 0
Gateway 0 . 0 . 0 . 0
DNS1 0 . 0 . 0 . 0
DNS2 0 . 0 . 0 . 0

6. **If the camera supports the EasyLink™ function**, the following page **will be** displayed. Otherwise, this page **will not** be shown. *If desired, click <Skip> to skip this setting.


Brickcom
EasyLink Settings
You can use EasyLink Settings to connect to the IP camera without knowing the IP address.
EasyLink Name: 0026821bdbfd
Live View - Windows Internet Explorer
http://0026821bdbfd.mybrickcom.com
Brickcom
WFB-100Ap
Camera Configuration Utility
Enter the EasyLink URL into a web browser to access the camera's web GUI.
Skip

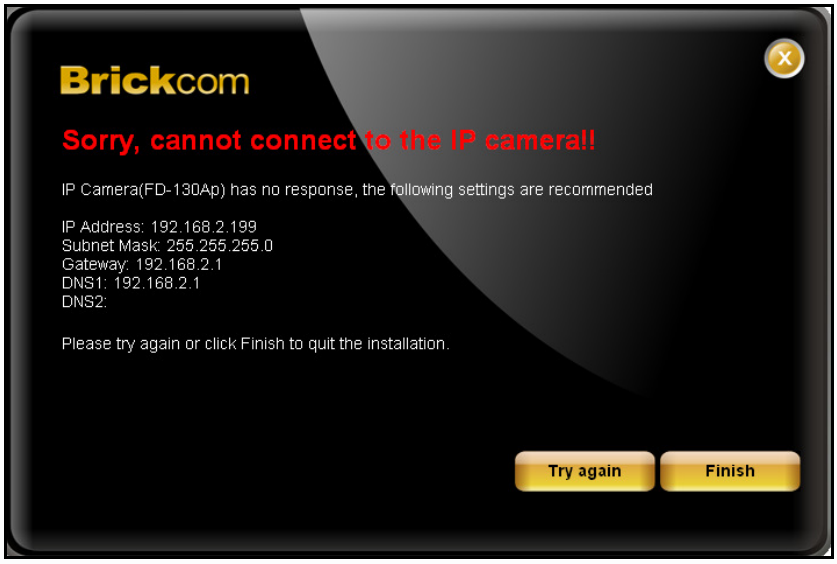
EasyLink™ is a unique Brickcom function which allows users to assign a unique EasyLink name to their network camera's IP address. There is no need to configure the router to open up ports or remember hard-to-memorize IP addresses. Users can log onto [uniqueEasyLinkname].mybrickcom.com to view the camera's web GUI and live view.

- Enter a unique EasyLink name whose length must be between 5-32 characters.
- When finished, click the arrow button to continue.

7. When the IP address settings have been configured, the screen will either display a successful or failed connection message. If the connection failed, either try again or quit the installation.
    a. If "**DHCP IP address settings**" was selected, the failure page will be displayed as below:

Brickcom
Sorry, cannot connect to the IP camera!!
IP Camera(FD-130Ap) has no response, please check
1. If your router has DHCP server supported.
2. Set computer IP address to 192.168.1.100 and subnet mask to 255.255.255.0 if your computer connects to the IP camera directly.
Please try again or click Finish to quit the installation.
Try again
Finish

b. If "**Static IP address settings**" was selected, the failure page will be displayed as below:



c. If the connection was successful, the user will see the message: "**Congratulations. The installation of the camera is complete**."

When this window is displayed, click <**PC-NVR**> to start the PC-NVR program, <**Live View**> to view the live video from the connected IP camera, or <**X**> in the top right corner of the screen to close the installation window. If the user starts the PC-NVR program, see page 18.

Brickcom
Congratulations
The installation of the camera is complete.
PC-NVR
Live View
Back

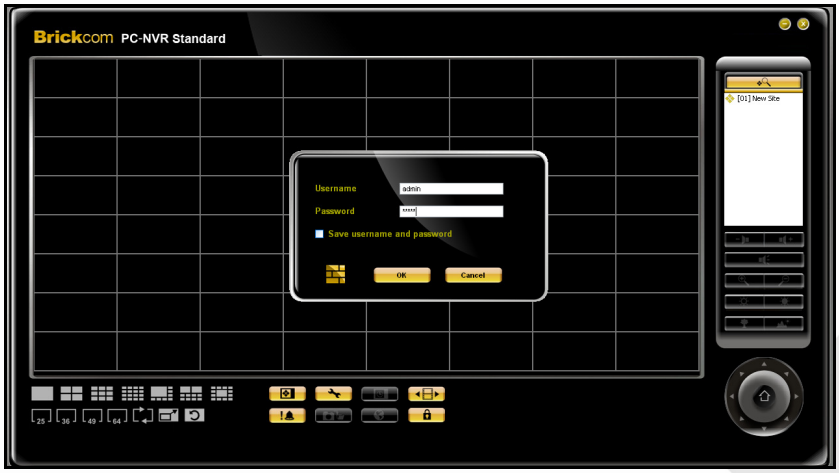
Start with PC-NVR

To launch the PC-NVR Standard, select PC-NVR Standard from the start menu. If "**Complete Setup**" type was used in software installation, a PC-NVR Standard icon was installed on the desktop. Double click to open the icon.

If "**Custom Setup**" type was used in software installation and a PC-NVR Standard icon was not installed on the desktop, the program should be installed under C:\Program Files\Brickcom\PC-NVR Standard/ PC-NVR Standard unless the program was saved to a preferred directory.

1. For first time use, the user name and password are assigned as "**admin/admin**". Click <**OK**> to login.

*Check <**Save user name and password**> to automatically login when the PC-NVR starts.



2. If “**Professional Mode**” was used to configure the network camera, the following page will be displayed.

   Select a camera and click <**OK**> to automatically add it to the camera list.

Authentication

PC-NVR for sale has its own unique product key. The authentication window will jump if the users want to implement specific functions such as NVS, broadcast, etc. Please input the corresponding product key to finish the authentication.

Main Window

The usage and function of each button will be briefly described below:

Click this button to search for UPnP devices within the LAN. The button is moving round and round.

Volume decrease/Volume increase

Volume on/off

Increase brightness

Decrease brightness

Live View - Click on the <**Live View**> icon to view live video feed. **Note:** After viewing recorded video, click this button to return to the live mode. Note: The menu will jump if you use your mouse to click on this icon. The content of this menu is:

(1) Enable all liveview

(2) Enable all liveview and record

(3) Enable all liveview and MD record

(4) Disable all record

Setting - Click on the <**Setting**> icon to adjust the camera, file path, event, sequence, and login settings.

Schedule record - Click on the <**Schedule record**> icon to schedule

recording times for cameras on the network.

Playback - Click on the <**Playback**> icon to view recorded video stored in the HDD of the connected IP camera.

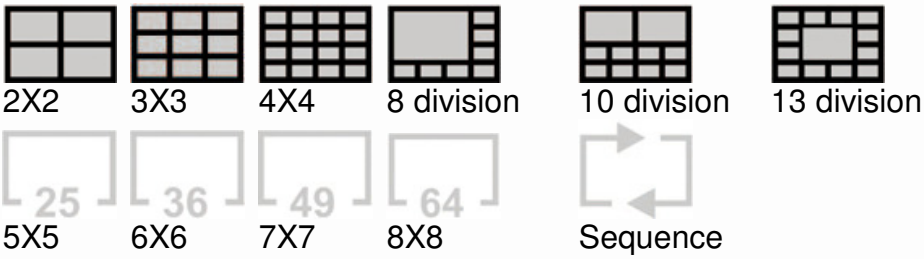
Event - List of system and camera event logs.

Snapshot - Click on the <**Snapshot**> icon to save a snapshot of the current window(s).

E-Map - Click on the <**Emap**> icon to open the E-Map program. The E-Map is a program that allows the user to illustrate the positions of the cameras on a self selected image.

Lock - Click on the <**Lock**> icon to lock the PC-NVR without closing the program. To re-access the PC-NVR, the user will be prompted to enter the username and password.

Display Modes



Full Screen

Resort Camera

Display Modes - to view the image in a multiple window mode. The selections include 1-window, 4-window, 9-window, 16-window, 8-window, 10-window, 13-window, 25-window, 36-window, 49-window, and 64-window modes.

Sequence: This function is used to set the display sequence.

Full Screen: Enlarge the viewing window to fit full screen. Hit <Esc> to exit.

Resort Camera: Resort Display Window Grids; to rearrange camera images of connected sites in order.

Configure the PC-NVR

Live View

With the live view function, the user can view live video feed from any IP camera connected to the network. To operate this feature:

1. Click on the <**Live View**> button to see the live view. Right click on a desired grid and select < **Disable Live View** > from the pull down menu to disable live view.
2. Click <**UPnP Search**> button on the control panel to start searching for UPnP devices within the LAN.
3. Use the Display Modes to determine the amount of sites to view
4. The PC-NVR allows the user to assign any camera in the site tree to any grid in the main window.

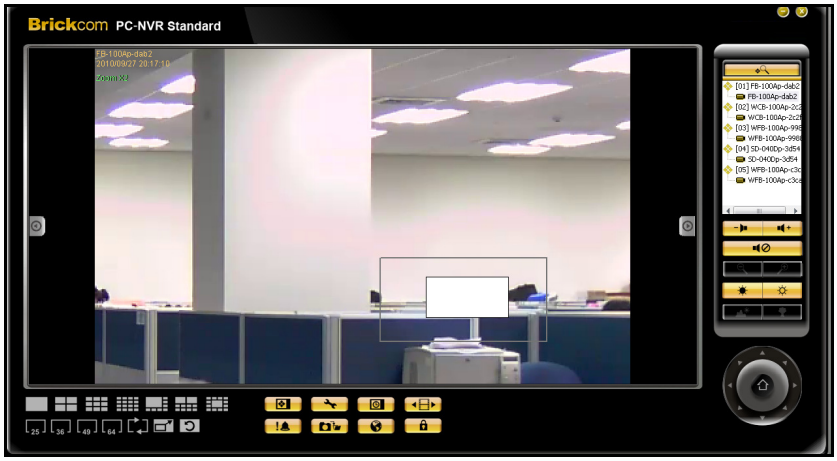
   Step 1: Selects the camera to be viewed from the site tree.

   Step 2: Drag and drop the selected camera into the window to view.

Re-sort Camera

If the camera sites are rearranged during live view, return to the original camera order by right clicking on any grid square and selecting <**Re-sort camera**>.

Zoom In – Double click on the desired grid, and use the scroll wheel on the mouse to zoom in and out of the live view window.


Brickcom PC-NVR Standard

If the camera has pan, tilt, and zoom capabilities, the following control panel will be displayed.

Zoom out / Zoom in - Click to manually adjust the zoom on the desired grid.

Focus – Click to manually adjust the focus on the desired grid.

PTZ Panel- Click on the arrows to pan and/or tilt the desired camera.

Setting

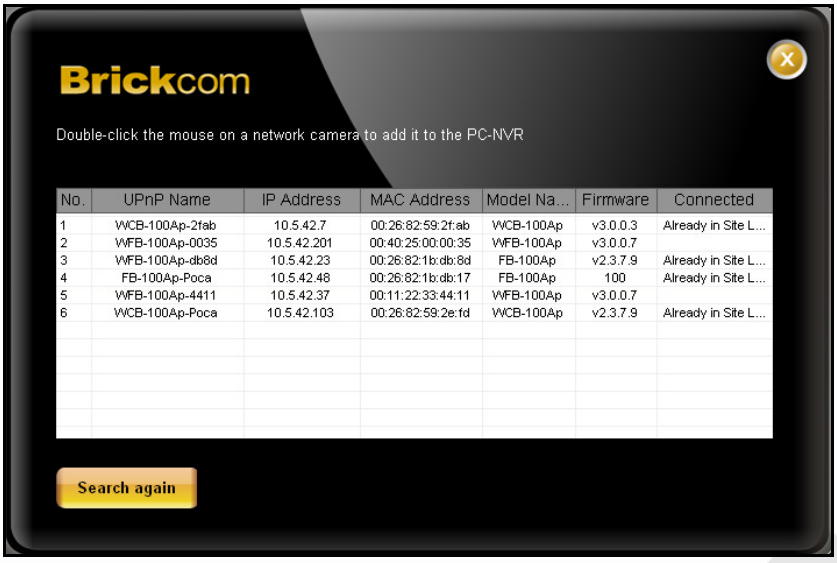
With the Setting tool, the user can manage up to 64 camera sites on the PC-NVR. Use this tool to add, remove, or configure cameras.

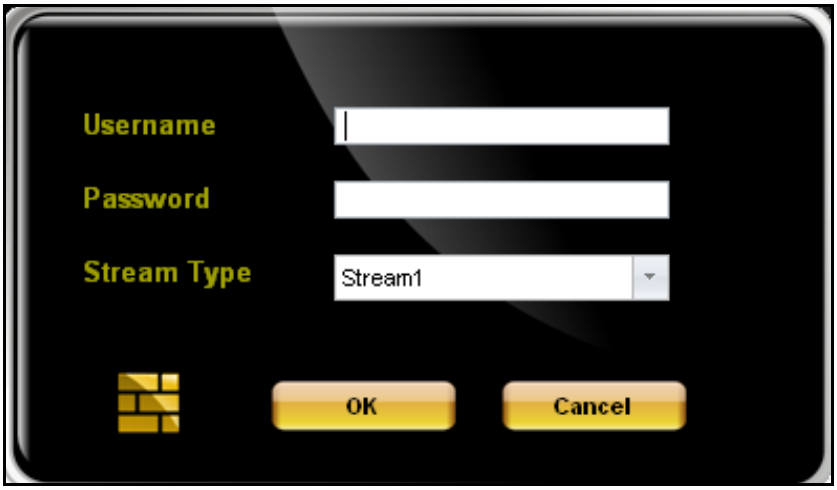
Add/Remove a Site

There are two ways to add a site.

1. **Setup the Site via UPnP Device Search**
   a. Click <**UPnP Search**> button on the control panel to start searching for UPnP devices within the LAN.

b. Click and select the Network Camera from the survey list. Enter the user name, password and select the stream type from the drop-down menu. For first time use of an IP camera, the user name and password are "**admin**/**admin**".

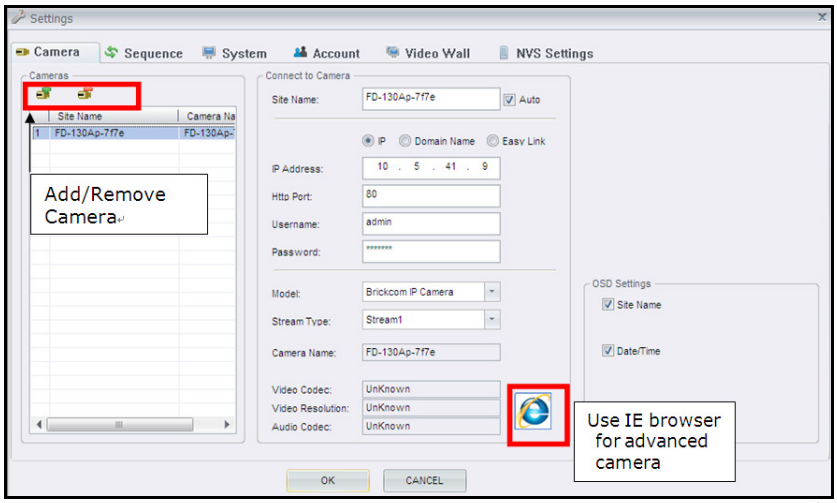

Brickcom
Double-click the mouse on a network camera to add it to the PC-NVR
No. UPnP Name IP Address MAC Address Model Na... Firmware Connected
1 WCB-100Ap-2fab 10.5.42.7 00:26:82:59:2f:ab WCB-100Ap v3.0.0.3 Already in Site L...
2 WFB-100Ap-0035 10.5.42.201 00:40:25:00:00:35 WFB-100Ap v3.0.0.7
3 WFB-100Ap-db8d 10.5.42.23 00:26:82:1b:db:8d FB-100Ap v2.3.7.9 Already in Site L...
4 FB-100Ap-Poca 10.5.42.48 00:26:82:1b:db:17 FB-100Ap 100 Already in Site L...
5 WFB-100Ap-4411 10.5.42.37 00:11:22:33:44:11 WFB-100Ap v3.0.0.7
6 WCB-100Ap-Poca 10.5.42.103 00:26:82:59:2e:fd WCB-100Ap v2.3.7.9 Already in Site L...
Search again



Setup the Site Manually

Camera

a. Click on the <**Settings**> icon and the figure below will be displayed.



b. Click button to add a site. Click to remove it.

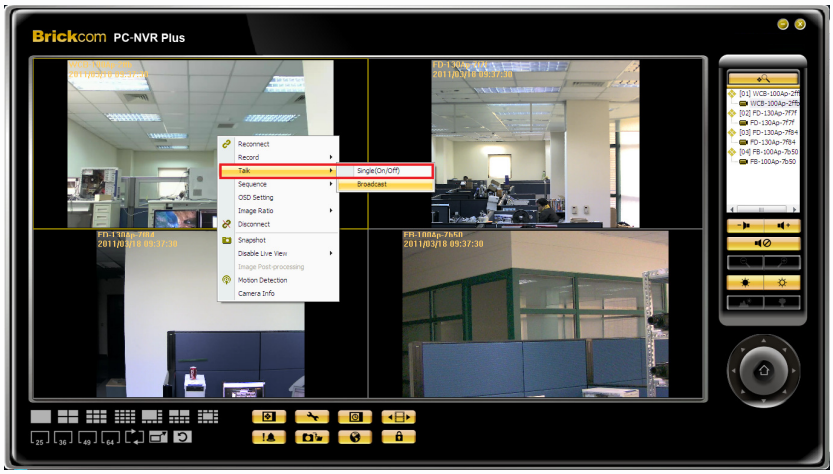
To add a Network Camera to the PC-NVR, enter the required information, including the Site name, IP address, Domain Name or EasyLink Name, as well as the Http port, Username, and Password of the Network Camera. Click <Auto> to automatically retrieve the Site name from the UPnP name of the camera being added add to the PC-NVR. Select the <**Model**> and <**Stream Type**> of the IP Camera from the drop-down menu. Click <**OK**> to complete the setting.

Click to automatically open the Web GUI of the selected camera.

Talk

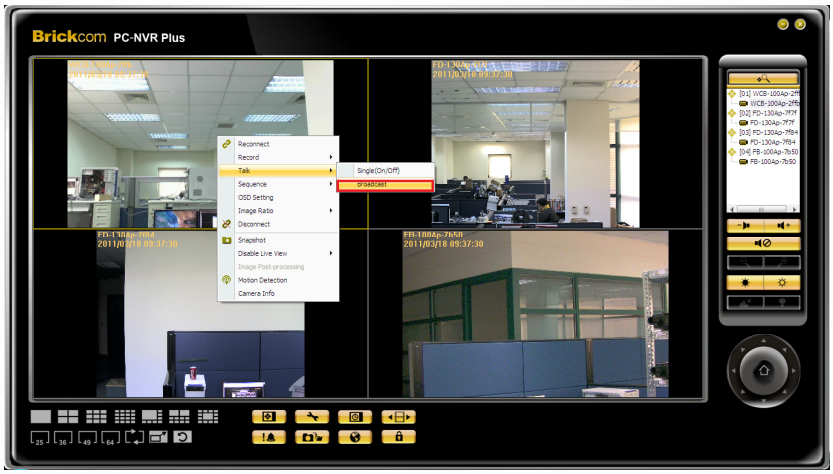
If there has connected cameras in PC-NVR, 2-Way audio is accessible to carry out.

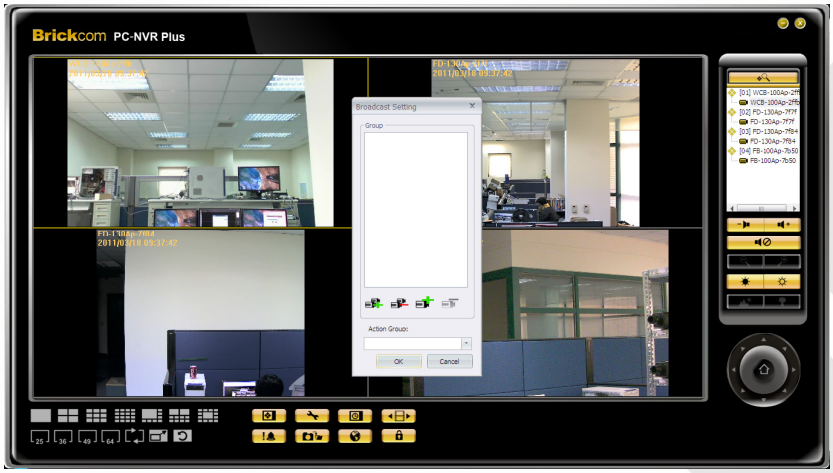
Single: Implement 2-Way audio with single camera. Select '**Single(On/Off)**'. Please see below photo.



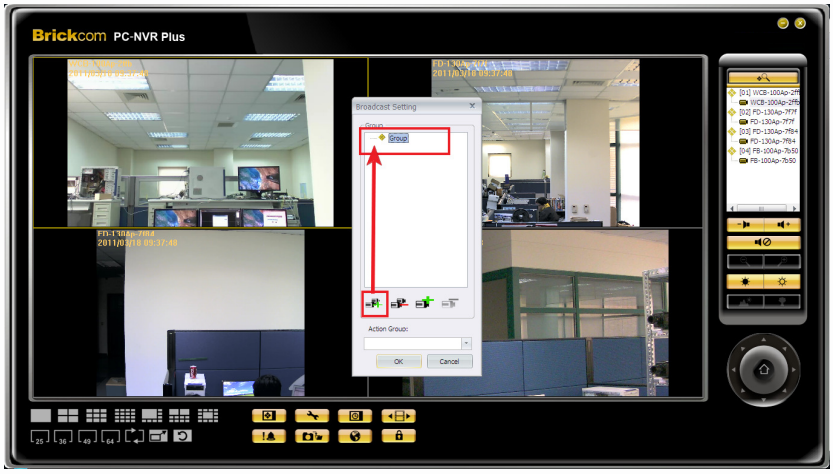
Broadcast: 2-Way audio with several cameras.

(1) Please select **Broadcast** to start broadcast setting.

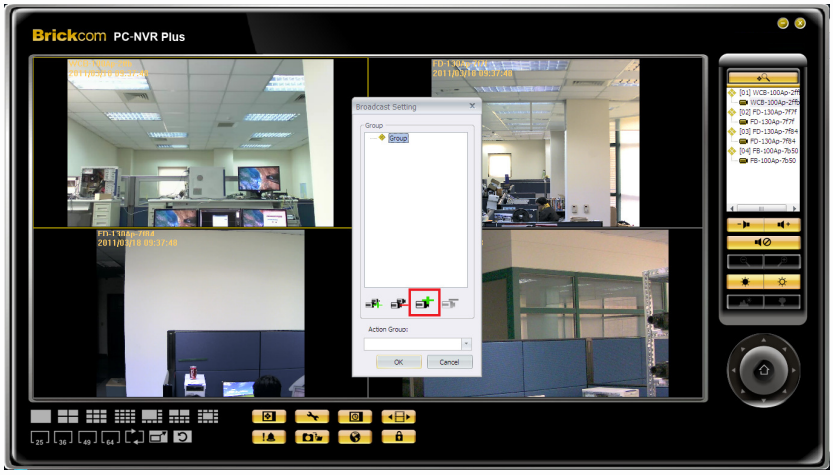




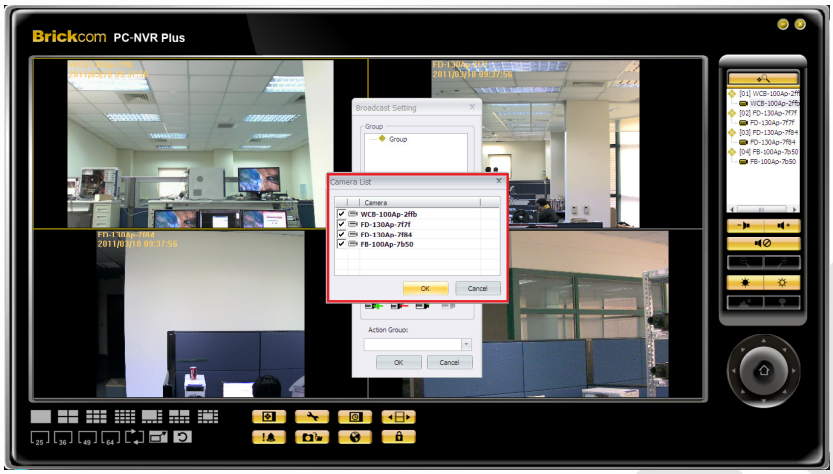
(2) Please select to create group



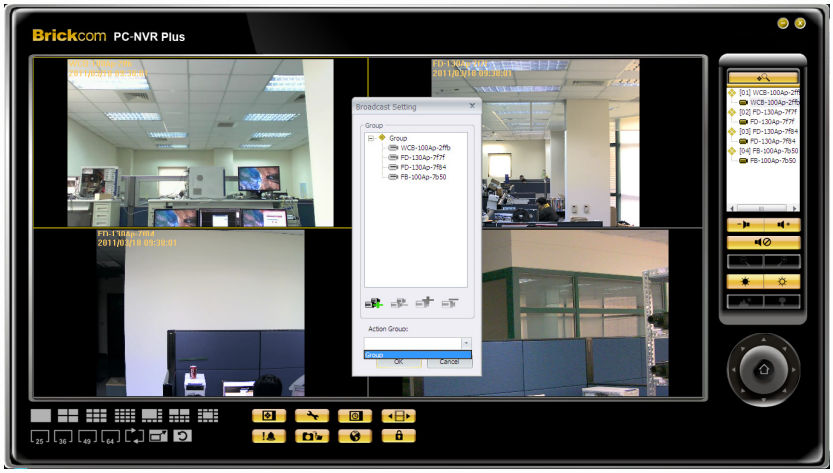
(3) Select to add camera

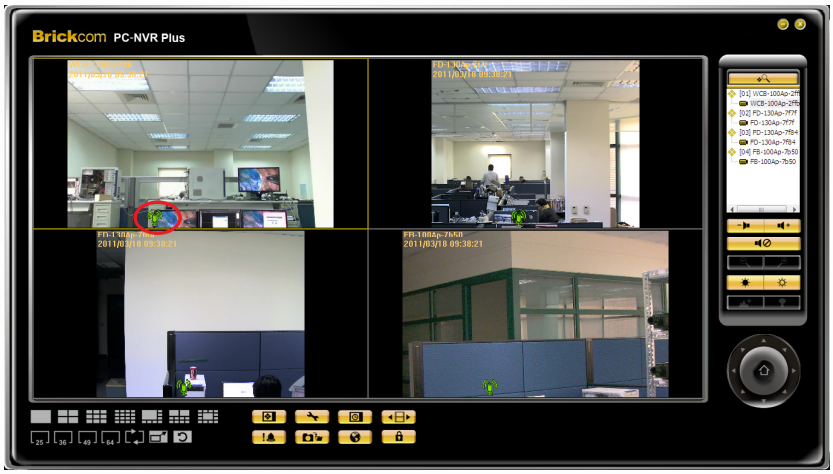


(4) Add camera to broadcast list, then press '**OK**'.



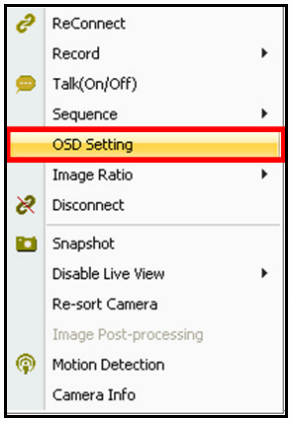
(5) Select group to start broadcast service, then press '**OK**'.





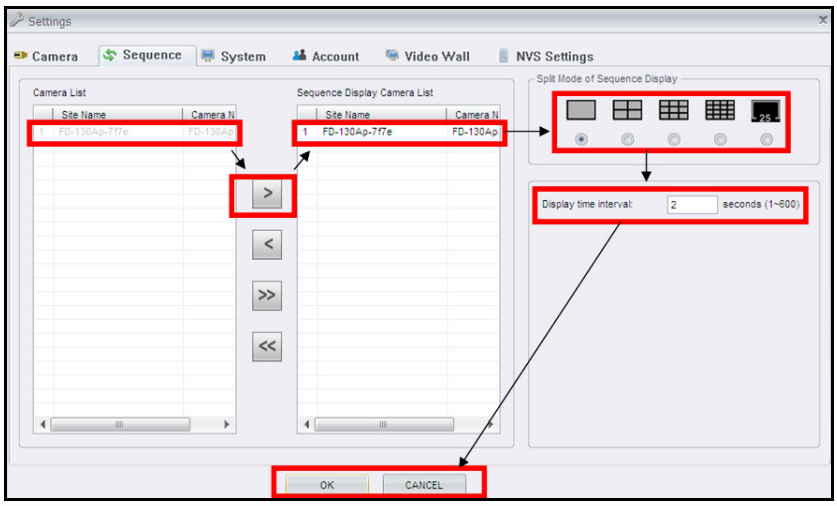
OSD Settings

"**On-screen display**" displays the camera data, which includes site-name, UPnP name and Date/Time, of a connected Network Camera on the live view screen. Click to select the options on the camera setting page or right click on a desired grid and select < **OSD setting** > from the drop down menu.



Sequence

This function is used to set the display sequence for live view of the cameras. There are two ways to add cameras to the sequence.



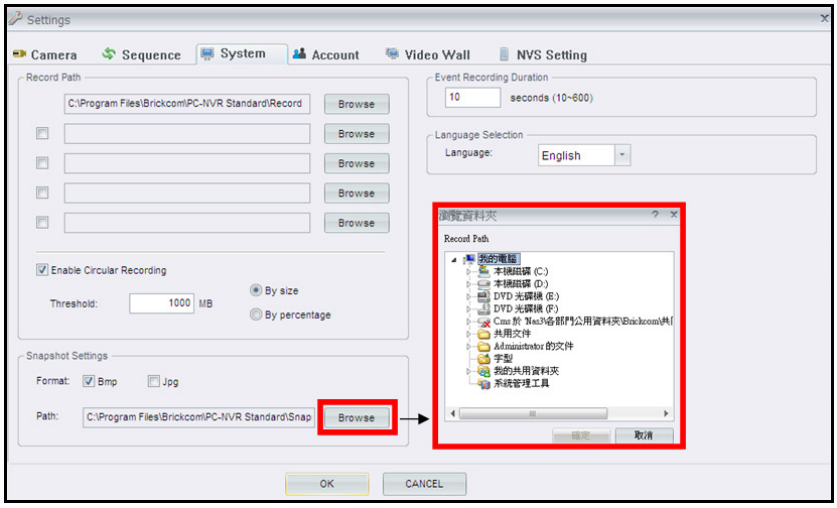
1. Click on the <**Setting**> icon and choose <**Sequence**> to setup the sequence. Select a camera and move from the "**Camera List**" to the "**Sequence Display Camera List**" in the preferred sequence order. The user can setup the display time interval (from 1 to 600 seconds) and split mode of sequence display (1*1, 2*2, 3*3, 4*4, and 5*5). Click <**OK**> to save the settings.
2. Right click on a desired grid and select <**Sequence**> → <**Add to Sequence**> to add, or <**Remove from Sequence**> to remove. Note that when the sequence is added, a capital "**S**" will be shown on the icon.

System

Record Path

The file path menu defines the storage located of recorded videos and snapshot. It is recommended to use the default folders.

- <**C:\Program Files\Brickcom\PC-NVR Standard\Record**> is the default path for recorded videos. The recorded videos can be stored in more than one folder.



Check the "**Enable**" box and click <**Browse**> to set more destination folders.

When motion detection is enabled, the <**Event Recording Duration**> can be used to define the amount of time for post-event recording. The duration must between 10 seconds to 600 seconds.

Language Selection – Select the desired language from the drop-down menu.

Circular Recording

The "**Circular**" is used to adjust the HDD space usage of the PC-NVR. If "**Circular**" is enabled, then once the free space remaining in the destination folder falls below the threshold, the "**Circular**" will overwrite the oldest video and snapshot files in the storage folder with new videos and snapshots files. The user can adjust the threshold by megabytes or percentage of the file size.

Snapshot Settings

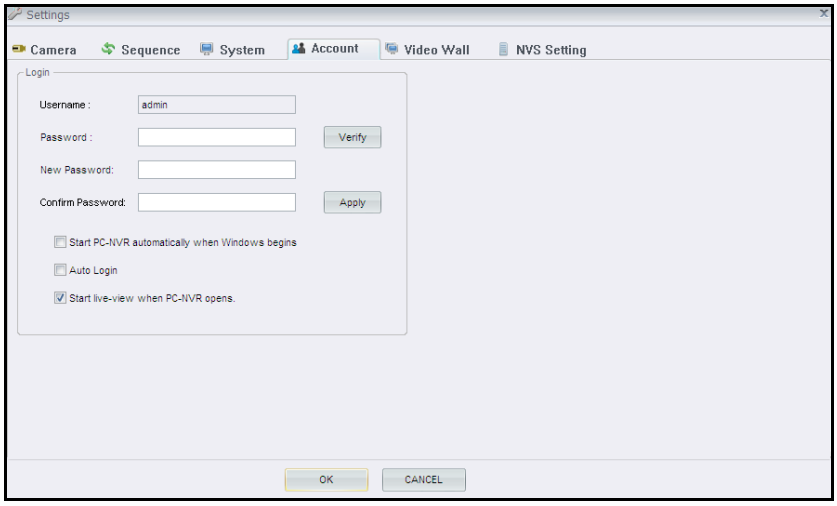
<**C:\Program Files\Brickcom\PC-NVR Standard\Snapshot**> is the default path for snapshots.

Click <**Browse**> to set desired destination folder as shown below. If the boxes are checked to save snapshots as Bmp and Jpg, the snapshots will be saved to two folders: one for Bmp and one for Jpg.

Account

Account is for the administrator management of the PC-NVR. The default username and password are set as "**admin/admin**". The user can only edit login setting using the

administrator username and password. To change the password, the user must enter the user name, current password, new password, and confirm password. Click <**Apply**> once the information is entered.



Login

The user can click the option "**Start PC-NVR automatically when Windows begins**" to request the computer to open the PC-NVR when Windows is opened.

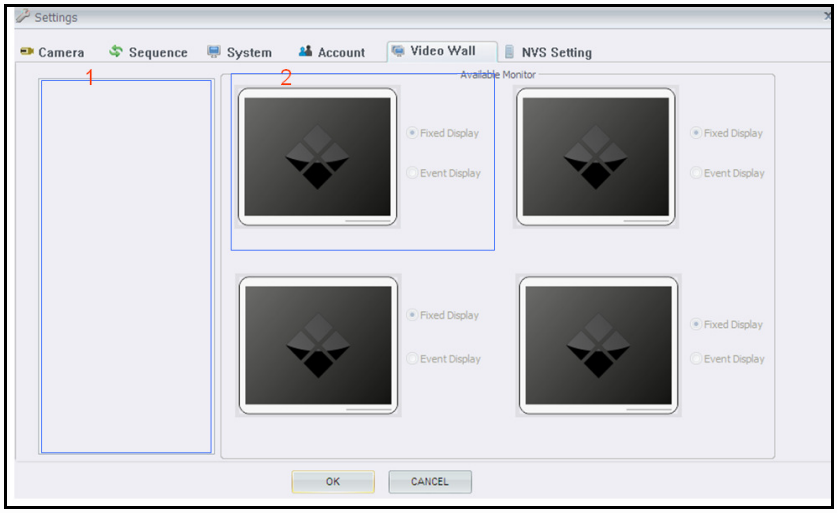
The user can click "**Auto Login**" to automatically login when the PC-NVR starts. To use this option, the user needs to verify a user name and password.

The user can click the option "Start live-view when PC-NVR opens" to automatically begin viewing live feed from the camera sites in the start group when the PC-NVR opens.

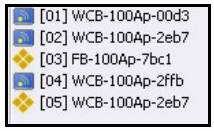
Click <**OK**> to save the settings.

Video Wall

A video wall consists of multiple computer monitors, video projectors, or television sets tiled together contiguously or overlapped to form one large screen.



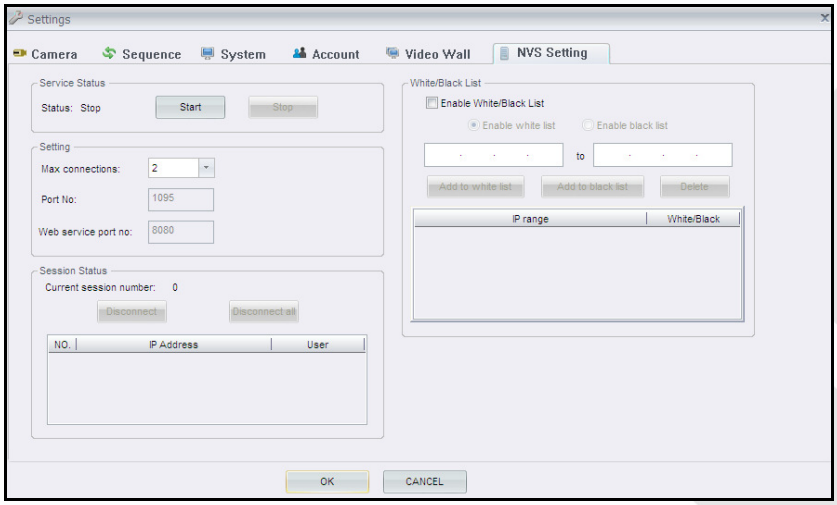
There are two parts:
(Mark ' 1'): List available cameras. If detected, the camera will appear in frame "1". If the camera is added to the video wall, the icon will change from to .



Adding new cameras to the video wall:
Using the mouse, pull the camera icon from frame "1" to frame "2."

(Mark '2'): Modify the camera to Fixed Display or Event Display.
Fixed Display: Assigns the monitor to output video with fixed cameras only.
Event Display: Output video will occur only if event appears.
Activation is now complete.

NVS Setting:
Allows another user to monitor immediately by IE browser



Service Status
To enable the NVS settings, press Start to begin the service or stop to disable the service.

Setting
Modifys the maximum connections that can be viewed.

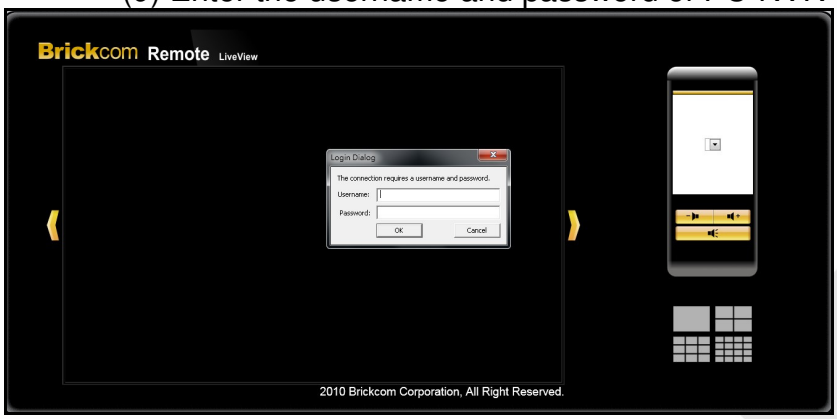
Session Status
Displays connection information.

White/Black List
Allows/Blocks specific IP addresses from the service

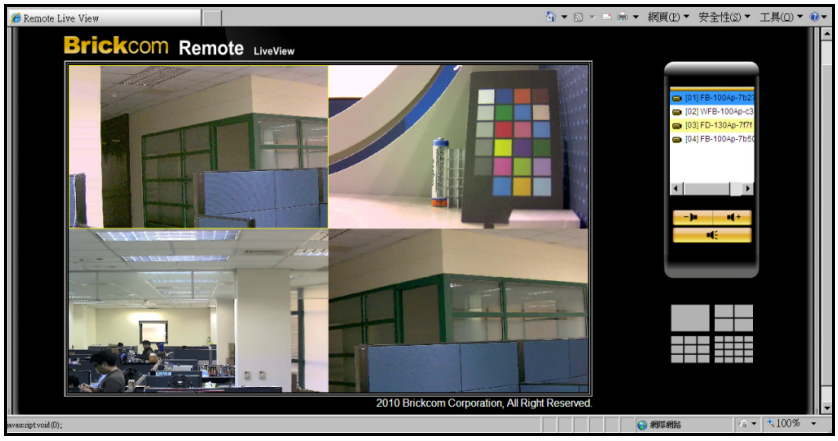
Steps to start NVS

(6) Please open the IE browser
(7) Input IP address for PC-NVR
(8) Agree the activeX authorization

(9) Enter the username and password of PC-NVR

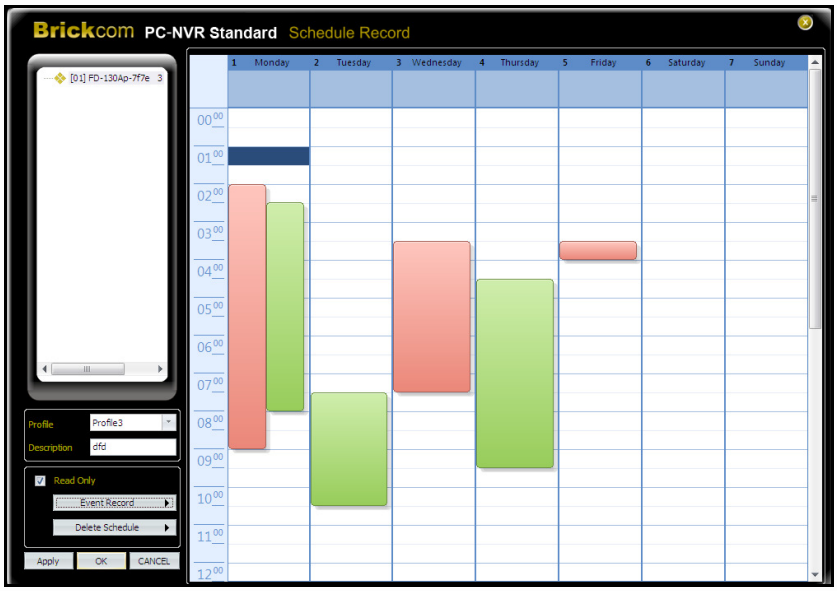


(10) Live view



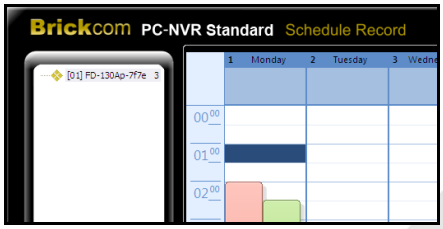
Schedule Record

Click on the <**Schedule record**> icon and the figure below will be displayed. The user can schedule specific times for the camera to record videos.

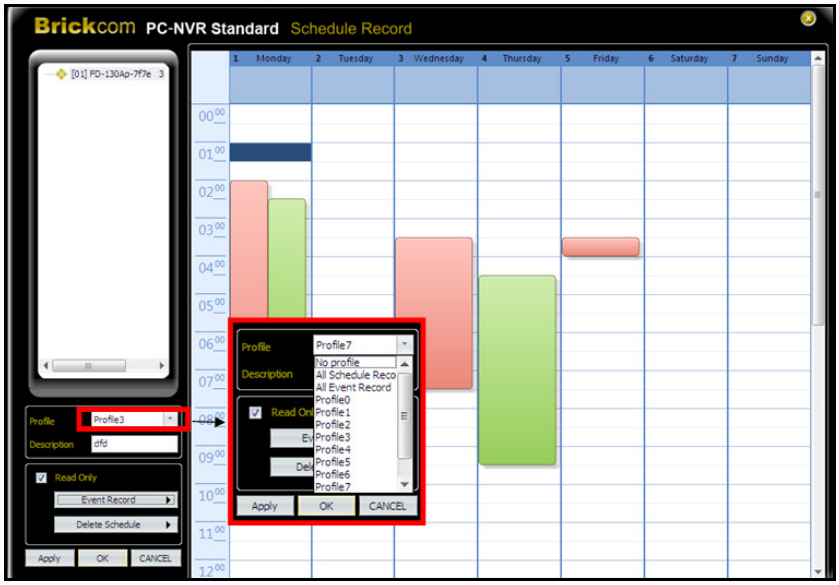


To create a recording schedule for a camera:

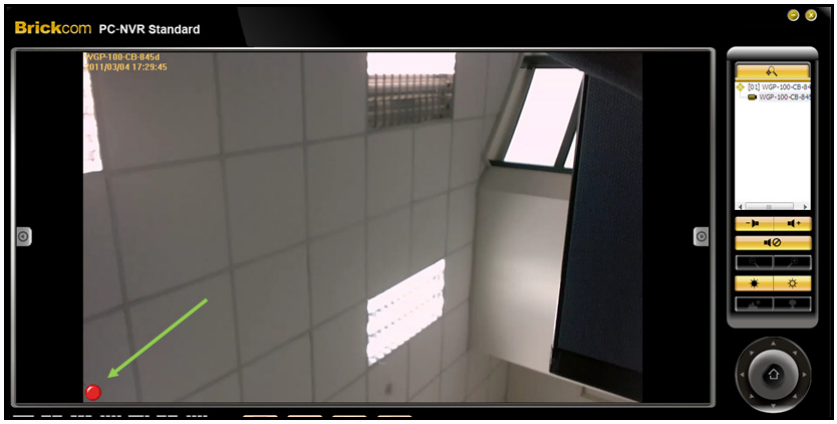
1. Select the desired camera



2. Select a profile from the “Profile” drop-down menu. Enter a description for the profile. **Note**: When a profile is created, it can be used by other cameras by repeating step one and choosing the desired profile.



3. Click and drag the mouse on the time frame table to schedule specific times for the camera to record video. **Note:** When the sites are being recorded, a will be displayed on the live view display window of the site.



4. When the user has finished creating a recording schedule for the desired camera, click <**Apply**> to save and continue using the schedule record setting for other cameras or click <**OK**> to save and exit the Schedule Record.
5. Recorded files will be saved to the default folder "**\PC-NVR Standard\Record**".

Read Only - Allows the user to read the schedule only.

Edit Schedule

- **Select All Period**

Schedule will be set to record normal and event videos at all times.

- **Schedule Record**

Schedule to record only the normal videos within the selected time frame.

- **All Event Record**

Schedule to record only the event videos all the times.

- **Event Record**

Schedule to record only the event videos within the selected time frame.

Delete Schedule

- **Delete One Period**

Select to manually clear the schedule setting.

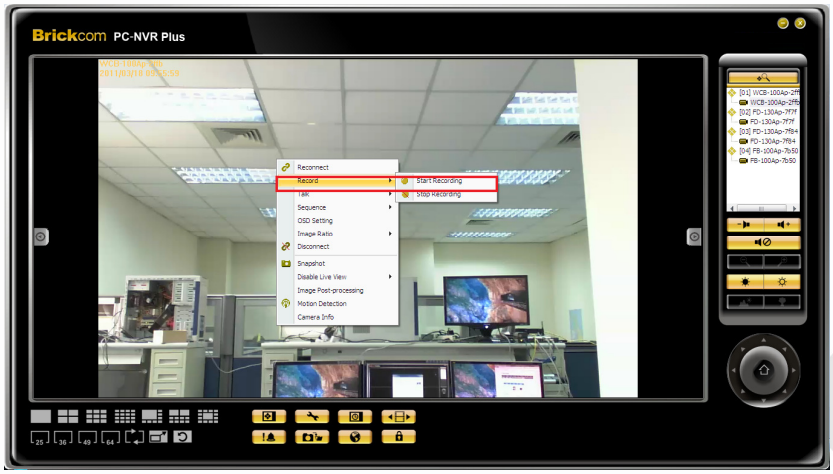
- **Delete All Period**

Select to clear all the schedule settings.

Click <**Apply**> to save and continue using the Schedule Record setting or click <**OK**> to save and exit the Schedule Record.

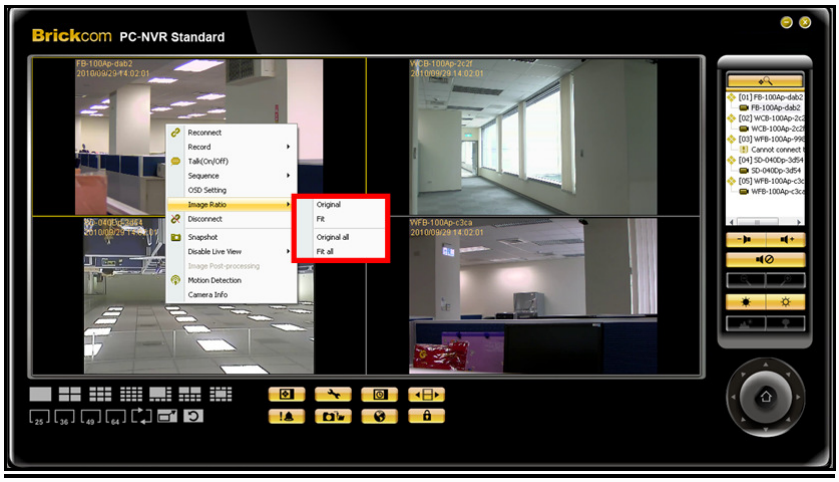
Instant Record

While the videos are scheduled to record, the user can choose to instantly record live video clips. Right click on a desired grid and select <**Start Recording**> to start recording and <**Stop Recording**> to stop recording.



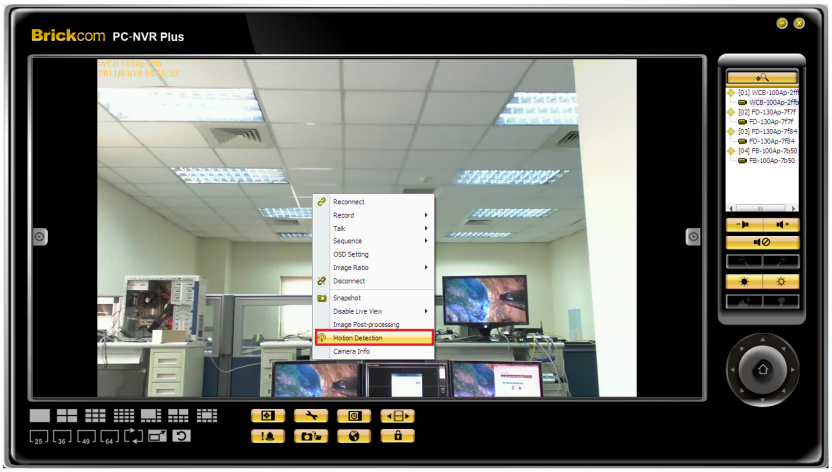
Adjust the display size

The user can adjust the display size of the Live View window by right clicking on the window to display the camera control menu. Select <**Image Ratio**> to adjust the size. The image ratio includes: Original, Fit, Original all, and Fit all.

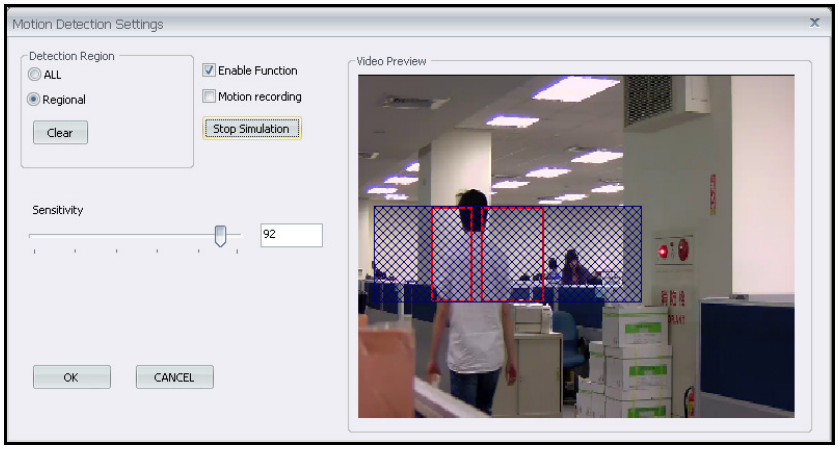


Motion Detection

Users can setup a camera to record motion detection at any site. Right click on a desired grid and select <**Motion Detection**> from the pull down menu.



The motion detection settings window is shown below. Under "**Detection Region**", users can click <**ALL**> to monitor the entire screen or click <**Regional**> to monitor up to eight individual regions. A blue grid will appear on the screen and the user can adjust the size. To delete, select desired grids and click on the <**Clear**> button to delete all selected areas. Alternatively, right click on any selected area to delete it individually.



Enable Function - Check to begin monitoring motion detection.

Motion Recording - Check to record an event video when motion is detected. The length of event video can be set by going to <**Event Recording Duration**> under System Setting.

Start Simulation - Click to simulate motion detection. As shown above, red, blue or green boxes will mark the motion detection area.

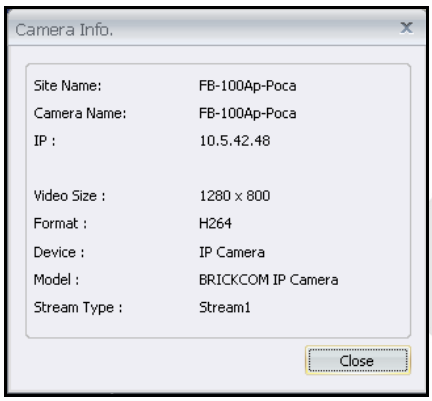
Stop Simulation - Click to stop the simulation.

Sensitivity - Setup a desired sensitivity level.

Click on <**OK**> to apply the settings, or click on <**Cancel**> to disregard and return to Live mode. The live monitoring screen will not show the colored motion detection boxes.

Camera Info

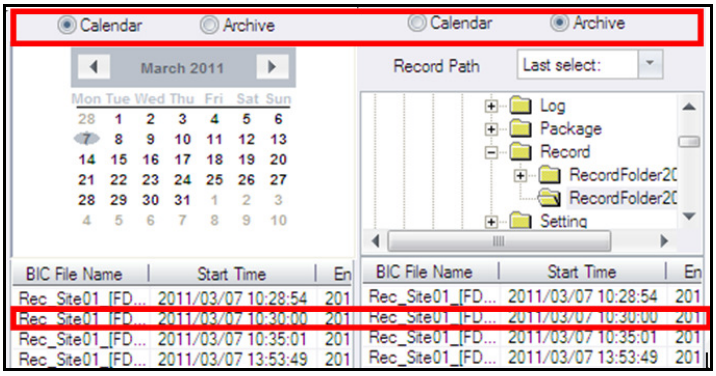
The Camera Info can be viewed in PC-NVR Standard. Right click on any desired grid and select <**Camera Info.**> from the pull down menu to view the information. Refer to the following for example:



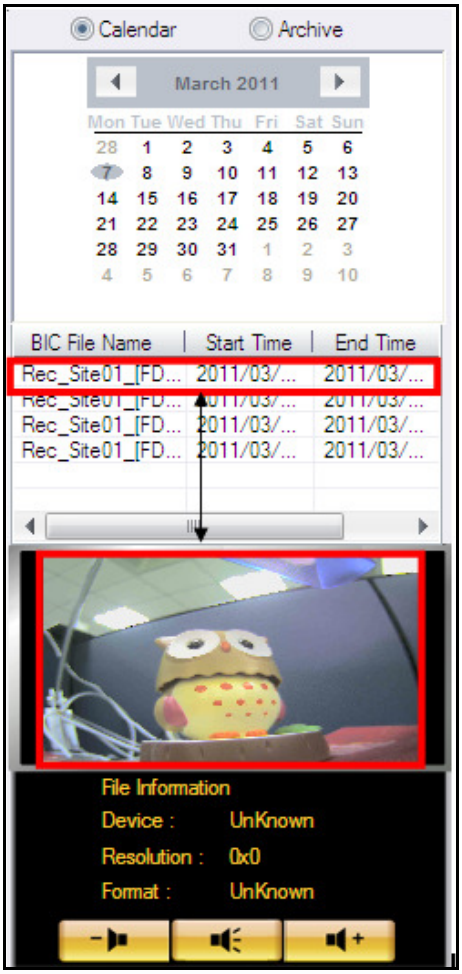
Playback

Click on the <**Playback**> icon, the figure below will be displayed.

This function allows the user to retrieve and play videos stored on the HDD. There is a calendar right above the window in order to search recorded video. Otherwise, archive UI is available.



The corresponding preview will display after choosing the recorded video.


Calendar
Archive
March 2011
Mon Tue Wed Thu Fri Sat Sun
28 1 2 3 4 5 6
7 8 9 10 11 12 13
14 15 16 17 18 19 20
21 22 23 24 25 26 27
28 29 30 31 1 2 3
4 5 6 7 8 9 10
BIC File Name
Start Time
End Time
Rec_Site01_[FD... 2011/03/... 2011/03/...
Rec_Site01_[FD... 2011/03/... 2011/03/...
Rec_Site01_[FD... 2011/03/... 2011/03/...
File Information
Device : UnKnown
Resolution : 0x0
Format : UnKnown

Full Screen

Start Continuous Play

Change to fit mode

Backward/Play/Pause/Forward

Click on to start playing the video. To pause the video temporarily, press again.

Rewind

Click on to rewind the video.

Fast Forward

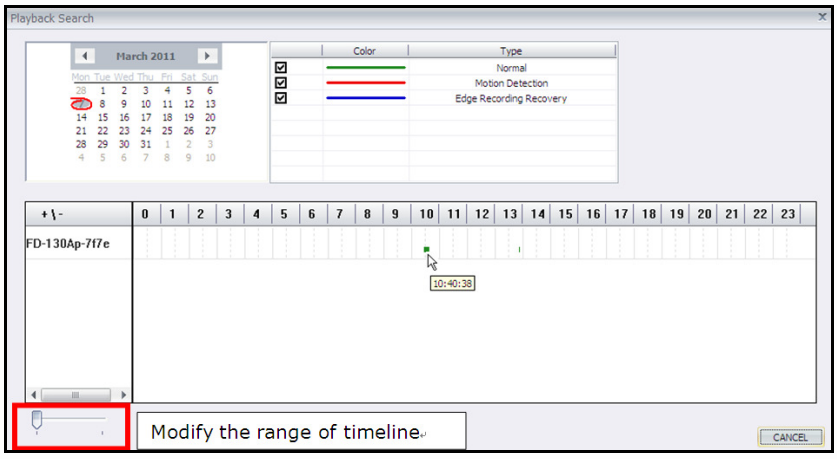
Click on to fast forward the video.

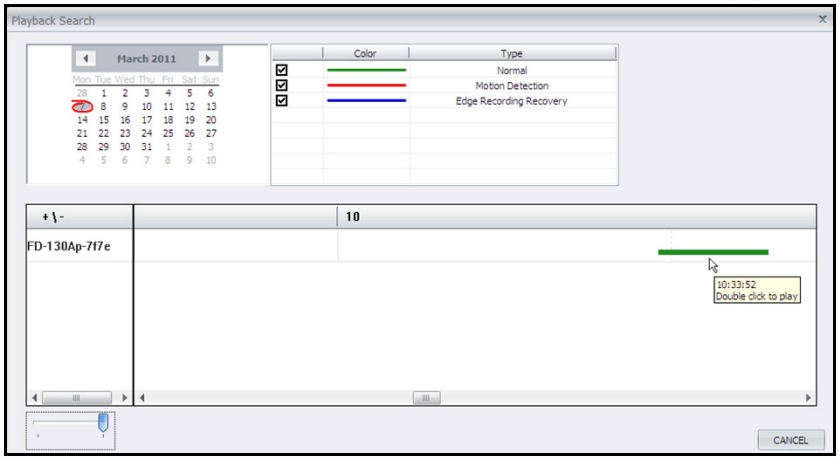
Decrease Volume / Increase Volume.

Turn Volume on/off.

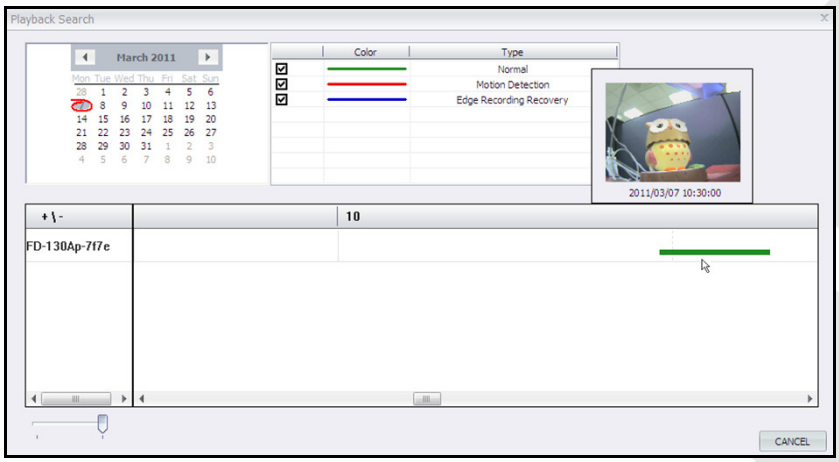
Search Image File

Click on the <**Search Image File**> icon to search for recorded files by date. Click the options to indicate normal and/or event video clips in the specific time frame.





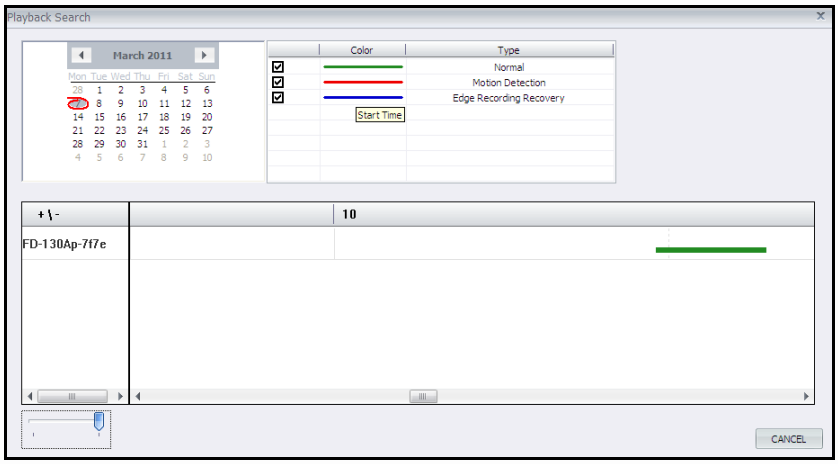
The corresponding preview will display if the mouse move to timeline.



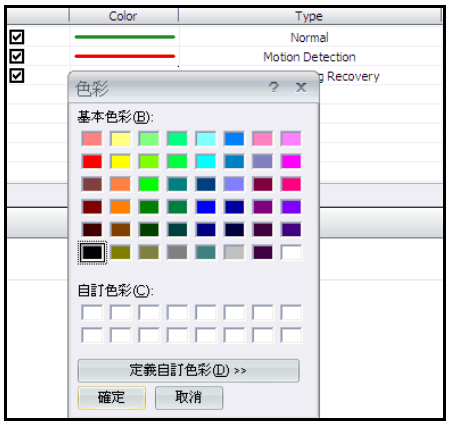
Double Click the blank area or modify left below bar to focus the period. Otherwise, it is

allowable to change the category colors

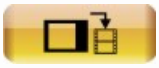
(1)Move the mouse to timeline

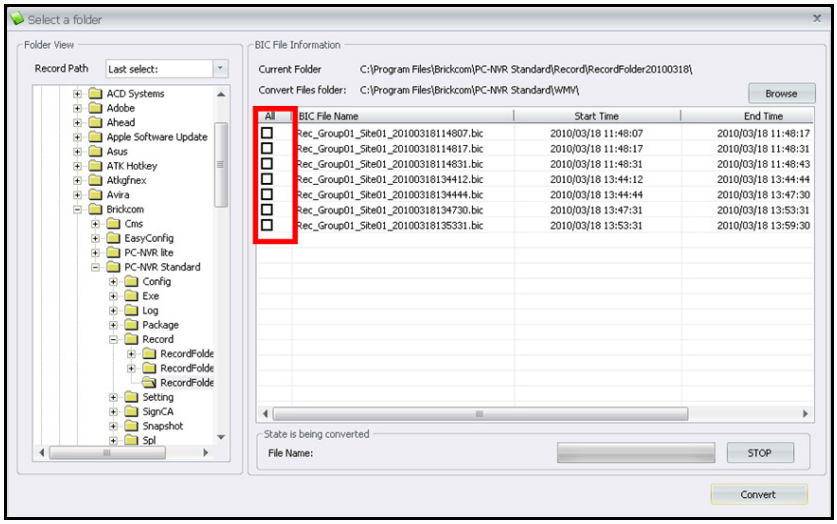


(2)Double click to modify color setting



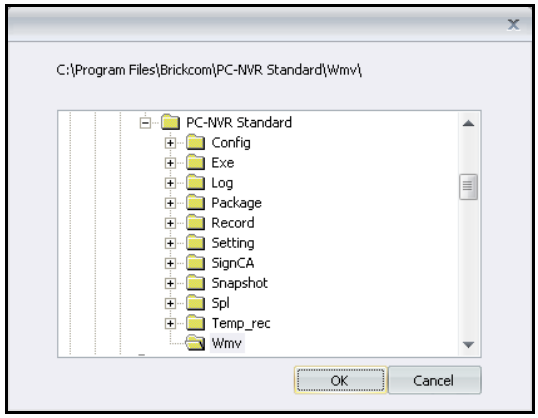
Convert Image File

The  <**Convert Image File**> icon is used to convert recorded video files to WMV video format. Click the icon to open the video files and select the files to be converted. Click <**Convert**> to start conversion of selected files.



There is a service to select all video clips by clicking "**All**". If the user wishes to stop the conversion, click <**STOP**> to abort.

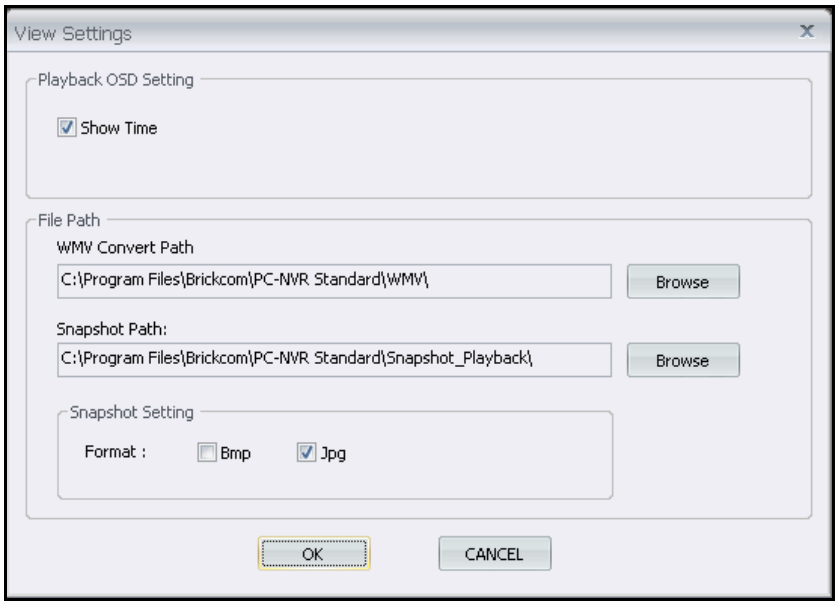
The converted files will be stored under folder **C:\Program Files\Brickcom\PC-NVR Standard\WMV**. To choose an alternate destination folder, click <**Browse**> and chose a desired folder.



View Setting

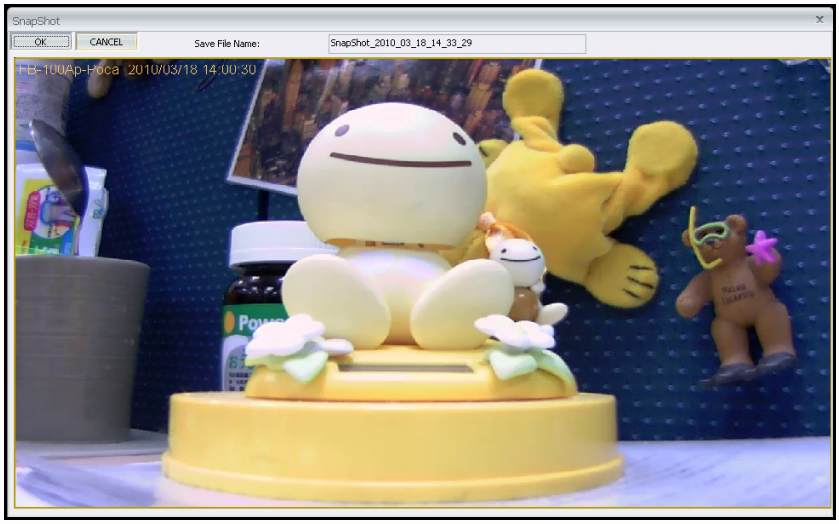
Click on the <**View Setting**> to choose to show or hide the time on the playback video. Check <**Show Time**>, and the time will be shown on the screen. Uncheck to hide the information.

File Path determines where WMV conversion and snapshot files are saved on the computer HDD. Click on <**Browse**> to select desired folders. In addition, snapshot pictures can be saved using Bmp and/or Jpg formats. After the settings are selected, click <**OK**> to save.



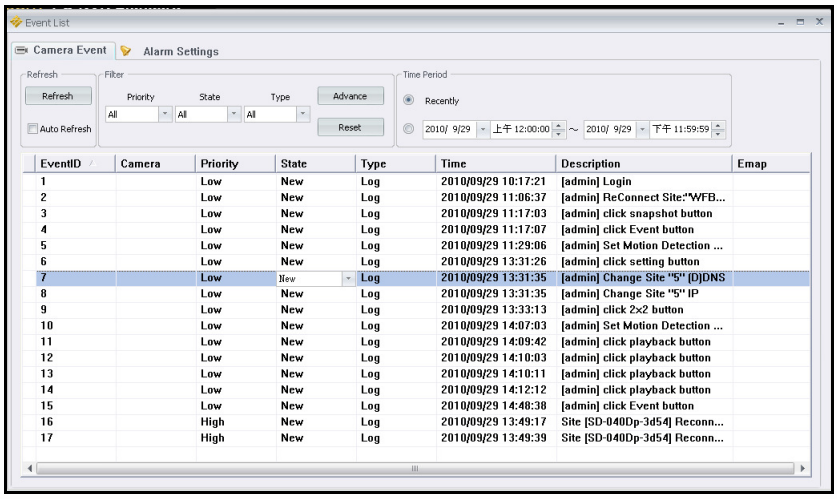
SnapShot

Click on the <**Snapshot**> to capture a snapshot of the playback screen. When the snapshot window is opened, the user can choose to rename the file or leave it as it is. Click on <**OK**> to save the snapshot or <**CANCEL**> to discard it.



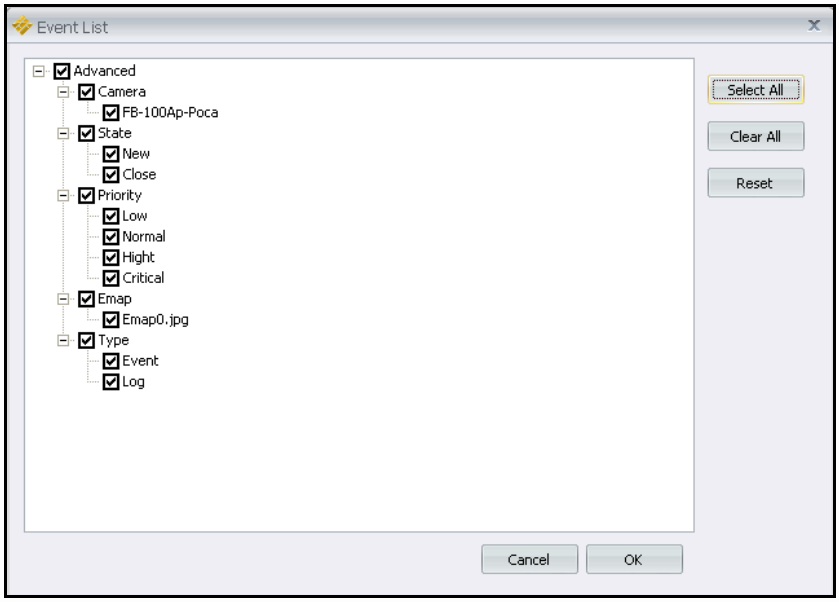
Event

Click on the <**Event**> icon to list all log and event activities of the camera.


Event List
Camera Event
Alarm Settings
Refresh
Refresh
Auto Refresh
Filter
Priority
State
Type
Advance
Reset
Time Period
Recently
EventID | Camera | Priority | State | Type | Time | Description | Emap
1 Low New Log 2010/09/29 10:17:21 [admin] Login
2 Low New Log 2010/09/29 11:06:37 [admin] ReConnect Site:"WFB...
3 Low New Log 2010/09/29 11:17:03 [admin] click snapshot button
4 Low New Log 2010/09/29 11:17:07 [admin] click Event button
5 Low New Log 2010/09/29 11:29:06 [admin] Set Motion Detection ...
6 Low New Log 2010/09/29 13:31:26 [admin] click setting button
7 Low New Log 2010/09/29 13:31:35 [admin] Change Site "5" (D)DNS
8 Low New Log 2010/09/29 13:31:35 [admin] Change Site "5" IP
9 Low New Log 2010/09/29 13:33:13 [admin] click 2x2 button
10 Low New Log 2010/09/29 14:07:03 [admin] Set Motion Detection ...
11 Low New Log 2010/09/29 14:09:42 [admin] click playback button
12 Low New Log 2010/09/29 14:10:03 [admin] click playback button
13 Low New Log 2010/09/29 14:10:11 [admin] click playback button
14 Low New Log 2010/09/29 14:12:12 [admin] click playback button
15 Low New Log 2010/09/29 14:48:38 [admin] click Event button
16 High New Log 2010/09/29 13:49:17 Site [SD-040Dp-3d54] Reconn...
17 High New Log 2010/09/29 13:49:39 Site [SD-040Dp-3d54] Reconn...

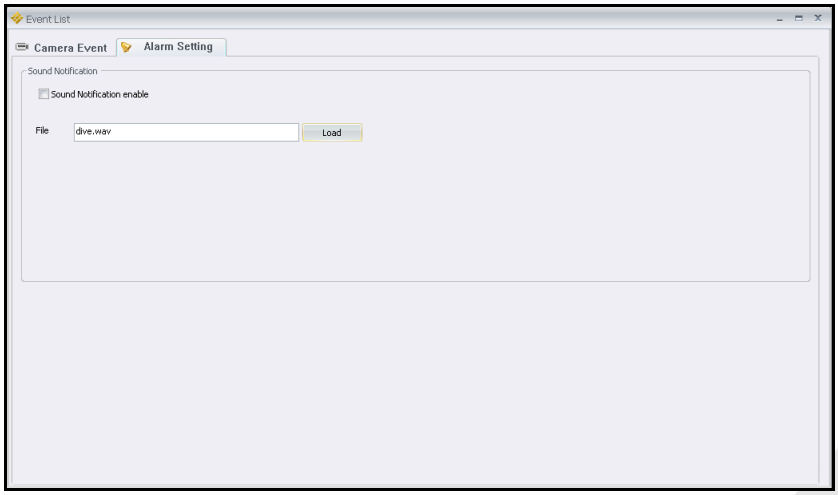
Camera Event

Click <**Refresh**> to refresh the list of events. The user can filter events two ways. The first is to use the three settings: priority, state, and type. The second is to filter using the "**Advanced**" settings. Click <**Advanced**> and the following menu will appear. The user can then select the filters for viewing the event list and click <**OK**> when done.



Under "**Time Period**," users can choose to view events from the most recently recorded or a specific time period. The user can change the status of an event log by moving the mouse pointer over the <**State**> column. When appears, click to change the status of the log.

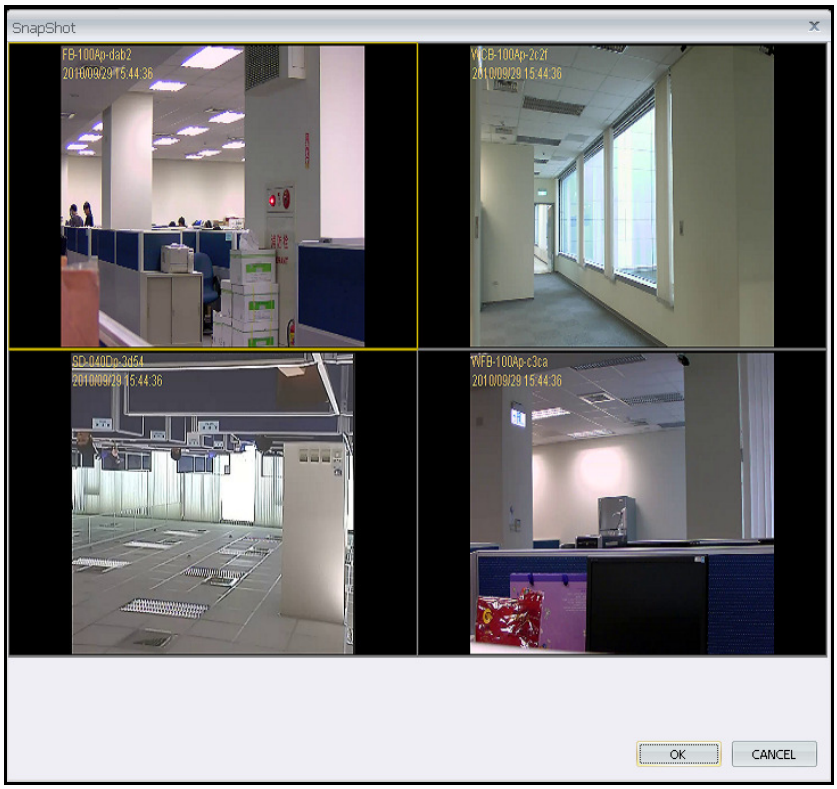
Alarm Setting



Click to enable the sound notification. Click <**Load**> to select a sound file to be played when an alert event occurs.

Snapshot

Click on the <**Snapshot**> icon to capture a screenshot of the window that you are currently viewing.



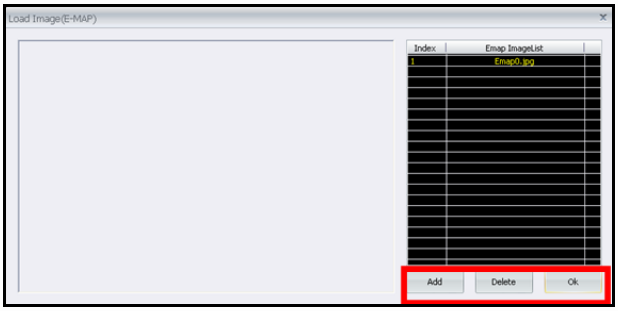
The Snapshot function is a simple screen capture tool. The screenshots are saved to the default path <**C:\Program Files\Brickcom\PC-NVR Standard\Snapshot**> or an alternative file path chosen by the user.

There are two ways to take a snapshot. The first is to click on the <**Snapshot**> icon. A snapshot will be taken and displayed in a new window. Click <**OK**> to save the file. The second way is to right click on the window, and select <Snapshot>. The file will be saved without displaying the image.

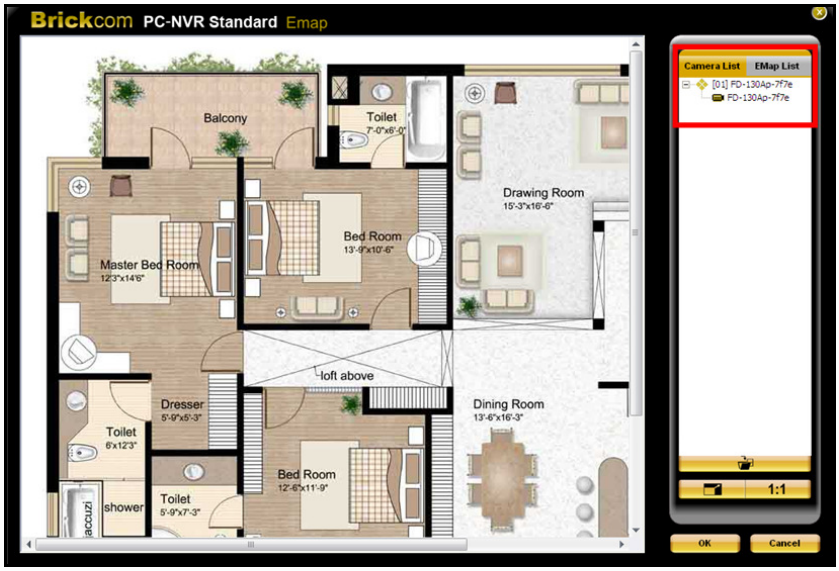
E-Map

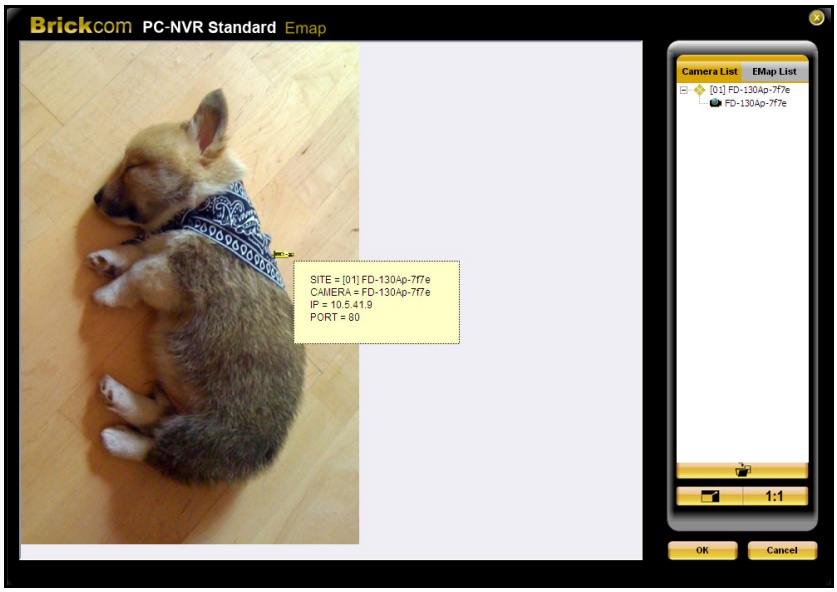
Click on the <**E-map**> icon to open the E-Map program. The E-Map is a program that allows the user to illustrate the positions of the cameras on a self selected image. If the PC-NVR Standard is being used to monitor multiple locations, the user can have multiple images to display the location of the cameras.

To add an image to the E-Map, click on the <**Load Image**> icon. The figure below is the Load Image window to add or delete images. Click on <**Add**> to add an image.



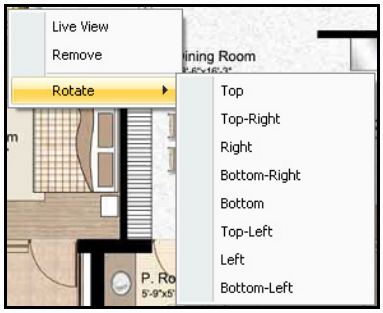
After the image is loaded, the filename of the image will be displayed on the list. "**Index**" indicates the order (starting from "1") of the files. Click <**OK**> to save the settings.





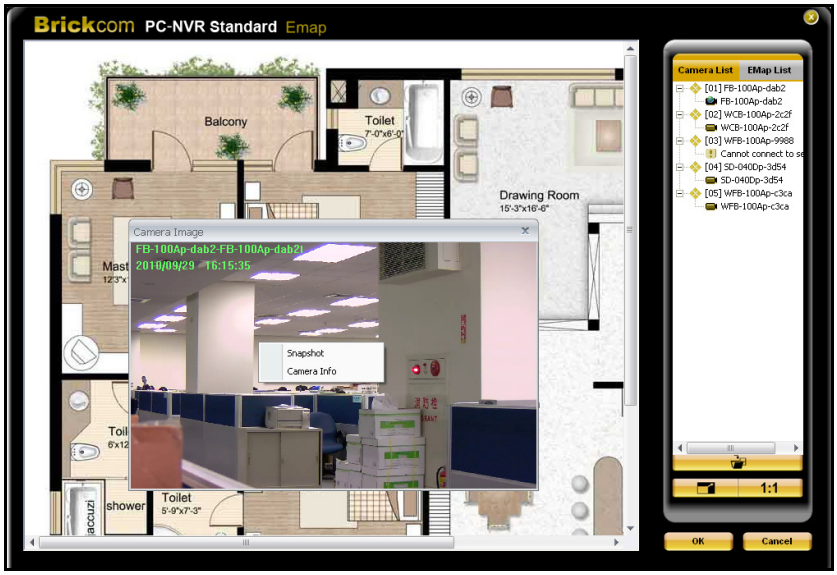
To add cameras to the E-Map, click <**E-Map List**> to list the map images. The user can select an image and it will be displayed in the E-Map main window. Click <**Camera**> on the control panel to list the site tree. Drag and drop a camera from the site tree to any desired position on the main image.

The user can right click on a camera icon to access Live View, remove the camera, or rotate its recording direction. The rotating directions include: Top, Top-Right, Right, Bottom-Right, Bottom, Top-Left, Left, and Bottom-Left.



When the mouse pointer scrolls over a camera icon in the image, an information dialog box will be displayed as below.

Double click on any camera icon in the image to display the live preview image of the camera. Right click on the camera preview window to display the camera control menu. The menu items includes: Snapshot, and Camera Info.



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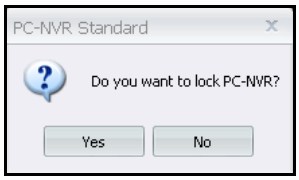
Lock

The Lock function can be used to lock the PC-NVR and prevent unauthorized access when the user needs to be away from the computer for any length of time.

Click on the <**Lock**> icon and a confirmation message will be displayed as below. Click “Yes” to confirm.



To unlock, click on the icon again. The user will need to enter the username and password to unlock the PC-NVR. A window as shown below will be displayed.